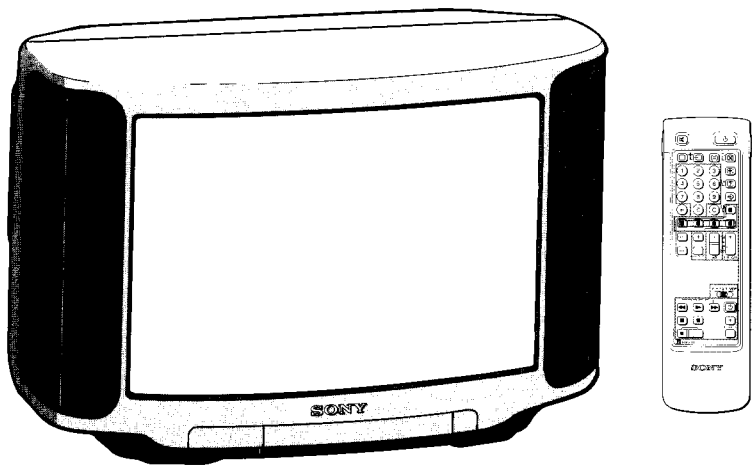


SERVICE MANUAL

BE-3B CHASSIS

MODEL	COMMANDER	DEST.	CHASSIS NO.	MODEL	COMMANDER	DEST.	CHASSIS NO.
KV-C2581A	RM-833	Italian	SCC-G81C-A	KV-C2581D	RM-833	AEP	SCC-G77D-A
KV-C2580B	RM-833	French	SCC-G85C-A	KV-C2583E	RM-833	Spanish	SCC-G82C-A



TRINITRON® COLOR TV
SONY®

ITEM	MODEL	Television System	Stereo System	Channel Coverage	Color System
AEP	B/G/H, D/K	GERMAN Stereo	PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 D/K VHF:R01-R12 UHF:R21-R69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)	
Italian	B/G/H	GERMAN Stereo	ITALIA VHF:A-H2 (C) UHF: 21-69 PAL B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10	PAL NTSC4.43, NTSC3.58 (VIDEO IN)	
French	B/G/H, L, I	NICAM Stereo	L VHF:F02-F10 UHF:F21-F60 CABLE:B-Q B/G/H VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69 I UHF:B21-B69	PAL, SECAM NTSC4.43, NTSC3.58 (VIDEO IN)	
Spanish	B/G/H,	NICAM Stereo	PAL B/G VHF:E2-E12 UHF:E21-E69 CABLE TV (1):S1-S41 CABLE TV (2):S01-S05, M1-M10, U1-U10 ITALIA VHF:A-H2 (C) UHF:21-69	PAL NTSC4.43, NTSC3.58 (VIDEO IN)	

MODEL	AEP	Italian	French	Spanish
Power Consumption	108W	108W	108W	108W

SPECIFICATIONS

Picture Tube Hi-Black Trinitron
Approx. 63 cm (25 inches)
(Approx. 59 cm picture measured diagonally)
110° -deflection

Input/Output Terminals

[REAR]

- Ⓔ 1 21-pin Euro connector (CENELEC standard)
 - inputs for audio and video signals
 - inputs for RGB
 - outputs of TV video and audio signals
- Ⓔ 2 21-pin Euro connector
 - inputs for audio and video signals
 - inputs for S video
 - outputs for audio and video signals (selectable)

[FRONT]

- Ⓔ 3 Video input - phono jack
- Ⓔ 3 Audio inputs - phono jacks
- Ⓔ 3 S video input 4-pin DIN
- Ω Headphone jacks : stereo minijack
- Sound output 2 x 15W (Music power)
- Power requirements 220 - 240V
- Dimensions (WxHxD) Approx. 720x497x480 mm
- Weight Approx. 35.5kg
- Supplied accessories RM-833 Remote Commander (1)
IEC designation R6 battery (1)
- Other features NICAM , FASTEXT, TOPTEXT.

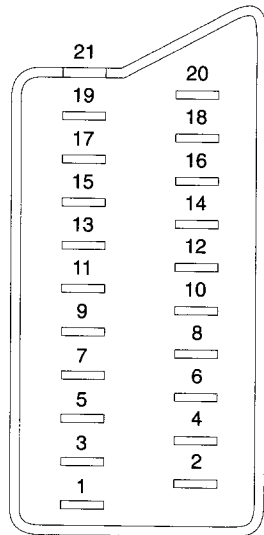
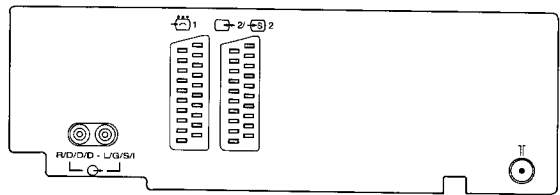
[RM-833]

- Remote control system infrared control
- Power requirements 1.5V dc
1 battery IEC designation R6 (size AA)
- Dimensions Approx. 65x225x21 mm (w/h/d)
- Weight Approx. 157g (Not including batteries)

Design and specifications are subject to change without notice.

Model name Item	KV-C2581A	KV-C2580B	KV-C2581D	KV-C2583E
RGB Priority	ON	ON	OFF	OFF
Woofer Box	OFF	OFF	OFF	OFF
Scart 1	ON	ON	ON	ON
Scart 2	ON	ON	ON	ON
Front in (3)	ON	ON	ON	ON
AKB in 16:9 mode	ON	ON	ON	ON
Norm B/G	ON	ON	ON	ON
Norm I	OFF	OFF	OFF	ON
Norm D/K	OFF	OFF	ON	OFF
Norm AUS	OFF	OFF	OFF	OFF
Norm L	OFF	ON	OFF	OFF
Teletext	ON	OFF	ON	ON
Nicam Stereo	OFF	ON	OFF	ON
Language Preset	Italian	French	Deutsch	Spanish

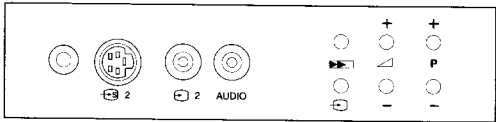
21 pin connector (1 2 4)



Pin No.	1	2	4	Signal	Signal level
1				Audio output B (right)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
2				Audio input B (right)	Standard level : 0.5V rms Output impedance : More than 10kohm*
3				Audio output A (left)	Standard level : 0.5V rms Output impedance : Less than 1kohm*
4				Ground (audio)	
5				Ground (blue)	
6				Audio input A (left)	Standard level : 0.5V rms Output impedance : More than 10kohm*
7				Blue input	0.7 ± 3dB, 75 ohms, positive
8				Function select (AV control)	High state (9.5 - 12V) : Part mode Low state (0 - 2V) : TV mode Input impedance : More than 10k ohms Input capacitance : Less than 2nF
9				Ground (green)	
10				Open	
11				Green	Green signal : 0.7 ± 3dB, 75 ohms, positive
12				Open	
13				Ground (red)	
14				Ground(blanking)	
15				Red input (S signal) chroma input	0.7 ± 3dB, 75 ohms, positive 0.3 ± 3dB, 75 ohms, positive
16				Blanking input (Ys signal)	High state (1 - 3V) Low state (0 - 0.4V) Input impedance : 75ohms
17				Ground(video output)	
18				Ground(video input)	
19				Video output	1V ± 3dB, 75ohms, positive sync: 0.3V(-3+10dB)
20				Video input Y (S signal)	1V ± 3dB, 75ohms, positive sync: 0.3V(-3+10dB)
21				Common ground (plug, shield)	

○ Connected ● Not Connected (open) * at 20Hz - 20kHz

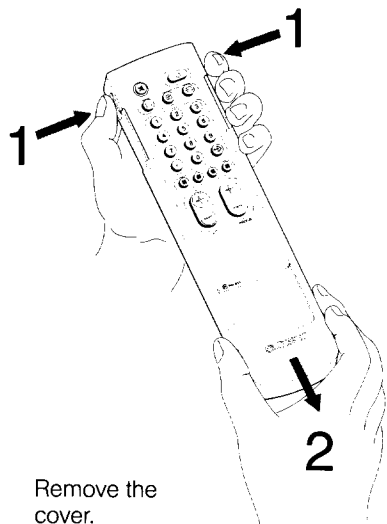
Pin No	Signal	Signal level
1	Ground	
2	Ground	
3	Y (S signal) input	1V ± 3dB 75 ohm , positive Sync. 0.3V -3/+10 dB
4	C (S signal) input	0.3V ± 3dB 75 ohm , positive Sync.



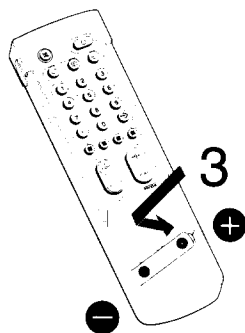
SECTION 1 GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

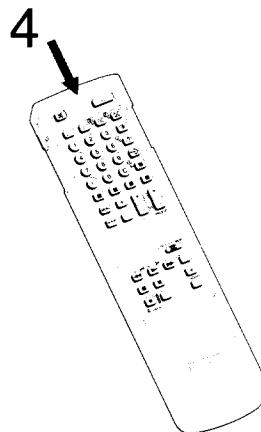
Getting Started



Remove the cover.



Check the correct polarity.



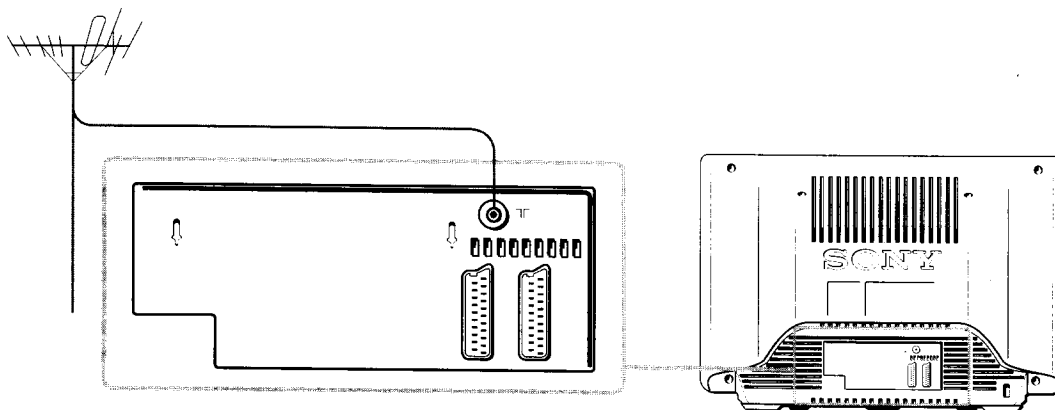
Refit the outside cover making sure that the Full Function side is visible.

About Battery Life

Under normal operation, a battery will last up to half a year.

Connecting the Aerial

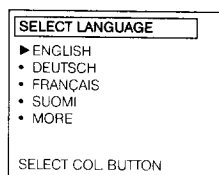
Connect the aerial to the Π socket at the rear of the TV.
(cable not supplied)



Choosing a Language

(See inside of front cover and back cover)

- 1 Depress ① A on the TV.**
The TV turns on. If the standby indicator **B** on the TV is lit, press **□** **3** or any number button **4** on the Remote Commander.
- 2 Press MENU ⑦ on the Remote Commander.**
The SELECT LANGUAGE screen appears.
- 3 Press one of the colour buttons ⑩ on the Remote Commander to select a language (Press the white button ⑩ to display other language alternatives).** The SELECT LANGUAGE screen clears and all subsequent menus appear in the chosen language.



Note: From the second time when you turn on the TV, the MENU screen appears instead of the SELECT LANGUAGE screen. Press the yellow button **⑩** then press the white button **⑩** to redisplay the SELECT LANGUAGE screen.

Tuning in to Channels

You can tune in up to 60 channels to programme positions either automatically or manually.

- auto tuning: A single button press allows all receivable channels to be tuned. Use if you are unfamiliar with the channel numbers of stations.
- manual tuning: Use if you are familiar with the channel numbers of stations.

Choose the more appropriate way for you.

Tuning in to Channels Automatically

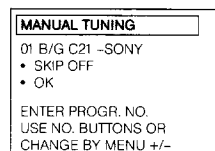
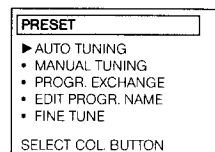
There are two possibilities for auto tuning;

- A. On the TV: hold down **▶▶** **E** on the front of the TV for 2 seconds
Note: The button **▶▶** for Automatic Presetting of channels is protected to prevent accidental usage. Use a pencil to press it.
or
- B. On the Remote Commander: as follows

- 1 Press MENU ⑦.**
 - 2 Press the white button ⑩.**
 - 3 Hold down the red button ⑪ for 2 seconds,**
- Note:** Press the green button **⑩** to cancel.

Tuning in to Channels Manually

- 1 Press MENU ⑦.**
The MENU screen appears. **MENU**
- 2 Press the white button ⑩ to select PRESET.**
The PRESET screen appears.
- 3 Press the green button ⑪ to select MANUAL TUNING**
The MANUAL TUNING screen appears.



4 Press the number buttons 4 or MENU +/- 9 to select a programme position.

If you use the number buttons 4, enter a double-digit number. (e.g. for programme number 4, first press 0, then 4)

5 Press the green button 7.

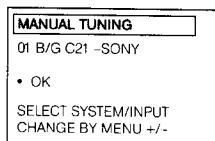
Note: Use MENU +/- 9

to select TV system.

You can alternatively select input sources which may be assigned to programme positions.

The display changes as follows:

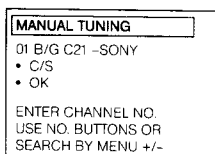
B/G → D/K → AV1 → RGB → AV2 → YC2 → AV3 → YC3



6 Press the green button 7.

Note: If a video input source is selected in step 5, this is now stored.

Refer to step 4 to tune other programme positions.



7 If you have selected B/G in step 5, press the red button 17 to select C (regular channel) or S (cable channel).

8 Press the number buttons 4 or MENU +/- 9 to select the channel number.

If you use the number buttons 4, enter a double-digit number. (e.g. for channel 23, first press 2, then 3)

9 Press the green button 7 to store.

Note: If you want to preset other channels, repeat steps 4 to 9.

10 Press MENU 7 twice to return to the normal screen.

Note: You can skip unused programme positions when selecting programmes with the PROGR +/- buttons 18.

Press the red button 17 to skip in step 4. However, the skipped programmes may still be called up when you use the number buttons.

Basic TV Operations

Turning the TV on and off

Turning on

Depress 1 A on the TV.

Turning off temporarily

Press 1 10 on the Remote Commander.

The TV enters standby mode and the standby indicator 8 on the front of the TV lights up.

Turning on again

Press 1 3, PROGR +/- 18, or one of the number buttons 4 on the Remote Commander.

Turning off completely

Depress 1 A on the TV.

Note: It is recommended to use 1 A to turn off the TV. This could help you save energy.

Selecting TV Programmes

Press PROGR +/- 18 or press the number buttons 4.

To select a double-digit number

Press +/- 5, then the number buttons 4.

Adjusting the Volume

Press 1 +/- 19.

Muting the Sound

Press 1 1.

To resume normal sound, press 1 1 again.

Displaying the On-screen Indications

Press 1 14 once to display the on-screen indications.

Press again to make the indications disappear.

Operating the TV Using the Buttons on the TV

With the buttons on the TV, you can adjust or select the functions as follows:

Press 1 +/- 19 to adjust the volume.

Press P +/- 16 to select programme numbers or to turn the TV on from the standby mode.







Press 1 14 to select the input source.

Press 1 15 to preset channels automatically.

Advanced TV Operations

Operating the Menu System








You can adjust picture and sound, preset channels to programme positions and utilise other convenient features by using the following menu system.

Press:	to:
1 MENU 	enter the MENU screen
2 a colour button 	select an item you want to change (The selected item is marked by a triangle.)
3 MENU +/- 	change (or adjust) the contents of the item
4 MENU 	return to the MENU screen
5 MENU  again	return to the normal screen
Press MENU  once or twice whenever you want to return to the normal screen.	

Note: When selecting menus, the picture becomes darker. If, however, an item in the PICTURE ADJUSTMENT menu is selected, normal level of TV picture is restored to allow the best adjustment.





Adjusting the Picture and Sound





Although picture and sound are adjusted at the factory you can adjust them to suit your own taste.

- 1 Press MENU .**
The MENU screen appears. 
- 2 Press the red button  to select PICTURE or the green button  to select SOUND.**
- 3 Press the respective colour button  to select an item.**
- 4 Press MENU +/-  to adjust.**
- 5 Press MENU  twice or wait until the menu displays disappear automatically to return to the normal screen.**

PICTURE ADJUSTMENT

(First Page)

PICTURE ADJUSTMENT	
▶ 
• 
• 
• 
• MORE	
SELECT COL BUTTON ADJUST BY MENU +/-	

Press colour button	Effect
Red: For Picture 	Less —+— More
Green: For Colour 	Less —+— More
Yellow: For Brightness 	Darker —+— Brighter
Blue: For Sharpness 	Softer —+— Sharper
White:	Next page of PICTURE ADJUSTMENT

PICTURE ADJUSTMENT

(Second Page)

PICTURE ADJUSTMENT
<ul style="list-style-type: none"> ► COLOUR TONE NORMAL • NOISE REDUCE ON • FORMAT NORMAL • 16:9 • BACK
SELECT COL. BUTTON CHANGE BY MENU +/-

Press colour button	Effect
Red: For Colour Tone	Normal ⇌ Warm (reddish colour tone) ⇌ Cool (blueish colour tone)
Green: For Noise Reduce	ON: Reduces picture noise (in case of low signal level) OFF: Normal setting
Yellow: For Format	Normal: Normal setting 16:9 Wide screen effect
Blue: For Hue control (only for NTSC video signals)	Reddish ——— Greenish
White:	Back to first page of PICTURE ADJUSTMENT

Note: Press →•← **8** on the Remote Commander to reset to the factory preset levels for picture and sound.

SOUND ADJUSTMENT

(First Page)

SOUND ADJUSTMENT
<ul style="list-style-type: none"> ► 00000 • 00000 • 00000 • 00000 • MORE
SELECT COL. BUTTON ADJUST BY MENU +/-

Press colour button	Effect
Red: For Volume	Less ——— More
Green: For Treble	Less ——— More
Yellow: For Bass	Less ——— More
Blue: For Balance	More left – more right
White:	Next page of SOUND ADJUSTMENT

SOUND ADJUSTMENT

(Second Page)


SOUND ADJUSTMENT
<ul style="list-style-type: none"> • SPACE SOUND OFF • LOUDNESS OFF • STEREO • BACK
SELECT COL. BUTTON CHANGE BY MENU +/-

Press colour button	Effect
Red: For Space Sound	OFF: normal sound ON: for a special acoustic sound effect
Green: For Loudness	OFF: normal sound ON: when listening to music broadcast
Yellow: For Stereo	Stereo ⇌ Mono A (left channel) ⇌ Mono B (right channel) ⇌ Mono
White:	Back to first page of SOUND ADJUSTMENT

Note: Press →•← **8** on the Remote Commander to reset to the factory preset levels for picture and sound.

Using Special Features

With your TV you can utilise special features such as Parental Lock or Sleep Timer.

- 1 Press MENU 7.**
The MENU screen appears. 
- 2 Press the yellow button 10 to select FEATURES.**
- 3 Press the respective colour button 17 to select an item.**
- 4 Press MENU +/- 9 to change.**
- 5 Press MENU 7 twice or wait until the menu displays disappear automatically to return to the normal screen.**

FEATURES


FEATURES
<ul style="list-style-type: none"> ▶ SLEEP TIMER OFF • PARENTAL LOCK OFF • TV BUTTON LOCK OFF • DEMO MODE • LANGUAGE
SELECT COL. BUTTON CHANGE BY MENU +/-

Press colour button	Effect
Red: For Sleep Timer (Automatic switch off function)	OFF ⇔ 0:30 ⇔ 1:00 ⇔ 1:30 ⇔ 2:00 (hours) After the selected time the TV set switches itself automatically into standby mode.
Green: For Parental Lock (For preventing children from watching programmes which you consider unsuitable)	OFF: Normal setting ON: The TV-channel you are watching is now blocked. In this way you can prevent undesirable broadcasts from appearing on the screen.
Yellow For TV Button Lock	OFF: Normal setting ON: The buttons on the TV do not function anymore. (The Remote Commander still operates)
Blue: For Demo Mode	ON: A sequence of menu pictures is displayed. Press any button on the Remote Commander to stop the function.
White: For Language	The SELECT LANGUAGE screen appears.

Advanced Presetting Functions

Exchanging Programme Positions

You can exchange the programme positions to a preferred order (example: exchange programme 09 (channel C21) with programme 15 (channel C24).


- 1 Press MENU 7.**
The MENU screen appears. 
- 2 Press the white button 17.**
The PRESET screen appears.
- 3 Press the yellow button 10.**
The PROGR. EXCHANGE SCREEN appears.

PROGR. EXCHANGE
01 B/G C21 - SONY • NEXT CHANNEL • PREVIOUS CHANNEL • STORE SELECT COL. BUTTON


- 4 Press the white button 17 repeatedly until the desired programme number (09) appears.**
- 5 Press the red or the green button 17 repeatedly until the desired channel number (C24) appears.**
- 6 Press the white button 17 to store.**
Now exchange has been completed. Channel C24 is tuned in to programme 09 and channel C21 is tuned in to programme 15.
- 7 Press MENU 7 twice to return to the normal screen.**

Editing Programme Names


You can edit the programme names up to five letters.

- 1 Press MENU 7.**
The MENU screen appears. 
- 2 Press the white button 17.**
The PRESET screen appears.
- 3 Press the blue button 17.**
The EDIT PROGR. NAME screen appears.
The first character flashes.


EDIT PROGR. NAME
01 B/G C21 - SONY • NEXT LETTER • STORE CHANGE BY MENU +/-

-
- 4 Press MENU +/-  to edit the first letter.**
The first letter changes as follows
A ↔ B ↔ ... ↔ Z ↔ 1 ↔ ... 9 ↔ "-" (space).





-
- 5 Press the red button  to move to the next letter.**


-
- 6 Repeat steps 4 to 5, until the fifth letter is chosen.**

-
- 7 Press the green button .**
The programme name is stored, and the normal screen appears. To edit another programme name, repeat steps 1 to 7.
-

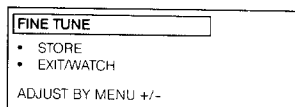
Fine Tuning


You can adjust the receiving conditions by the FINE TUNE function.



-
- 1 Press MENU .**
The MENU screen appears. 


-
- 2 Press the white button .**
The PRESET screen appears.

-
- 3 Press the white button  again.**
The FINE TUNE screen appears.





-
- 4 Press MENU +/-  to adjust the receiving condition.**

-
- 5 Press the red button  to store the adjustment, or press the green button  not to store.**
Now the normal screen appears. If you have pressed the green button, the fine tuned condition is cancelled once you choose another programme.

Note: If the FINE TUNE screen disappears automatically before you press the red button , the fine tuned condition is not stored. Repeat steps 1 to 5.

Tuning in to a Channel Temporarily

You can tune in to a channel temporarily, even when it has not been preset.

-
- 1 Press C  on the Remote Commander.**
For cable channels press C  twice. The indication "C" (or "S" for cable channels) appears on the screen.

-
- 2 Enter a double digit channel number using the number buttons (e.g. for channel 23, first press 2, then 3).**
The channel appears.
However, the channel is not stored.
-

Teletext Operation

TV stations broadcast teletext programmes via the TV channels. For basic operation of teletext, use the simple side of the Remote Commander. For the advanced features of teletext, use the buttons indicated in green on the full function side of the Remote Commander.

Basic Teletext Operation

Switching Teletext on and off

1 Select the channel which carries the teletext service you wish to view.

2 Press **⏻** **11** to display Teletext.

If no teletext signal is broadcast, the indication P100 is displayed on a black screen.



3 Input three digits for the page number using the number buttons **4**.

The numbers are displayed on the screen and the requested page appears in a few seconds.

Note: If you make a mistake, type in any three digits, then re-enter the correct page number.

4 Press **□** **3** to return to the TV mode.

Notes:

- To change the teletext channels. First press **□** **3** to return to the TV mode, then repeat steps 1 to 3.
- If the signal of a TV channel is weak, teletext errors may occur.

Advanced Teletext Operation

Using Fastext

With Fastext you can access pages with one button press.

When a Fastext page is broadcast, a colour-coded menu will appear at the bottom of the screen. The colours of this menu correspond to the red, green, yellow and blue buttons **6** on the Remote Commander.

Press the corresponding colour button **6** on the Remote Commander which corresponds to the colour-coded menu. The page will be displayed in a few seconds.

Requesting the Index page

Press **⏻** **17**. The Index page appears.

Accessing the next or preceding page

Press **⏻** (PAGE -) or **⏻** (PAGE +) **18**. The next or the preceding page appears on the screen.

Superimposing the teletext display on the TV picture

Press **⏻** **11** once if you are in text mode or press **⏻** **11** twice if in TV mode.

To return to the normal teletext display press **⏻** **11** again.



Preventing a teletext page from being updated or changed

Press **⏻** (HOLD) **2**. The HOLD symbol (**⏻**) appears on the screen and the selected subpage is held until you press **⏻** **11** to cancel.

Enlarging the teletext display

Press **⏻** **19** once to enlarge the upper half. Press twice to enlarge the lower half. Press again to restore the normal display.



Revealing concealed information (e.g. answers to a quiz)

Press **⏻** (REVEAL) **14**. The information is revealed. Press **⏻** **14** again to conceal the information.

Watching TV while waiting for a requested page to be displayed

1 Request a new teletext page.

2 Press **⏻** (TEXT CL) **12**.

The TV programme is displayed and the symbol **⏻** is displayed at the top of the page.

Note: When the requested page is available the page number is displayed at the top of the screen.

3 Press **⏻** **11** to view the page.

To cancel the request

Display the teletext page, then press **⏻** **11**. The request is now cancelled. Press **□** **3** to resume TV mode.

Using the Favourite Page system

You can store up to four of your favourite teletext pages per programme with the help of the Favourite page system. In this way you have quick access to the pages you watch frequently.

Storing the Favourite Pages

1 Select the page you would like to store using the number buttons **4**.

2 Press **→** **15** twice.

The colour prompts at the bottom of the screen flash.

3 Press any of the colour buttons **6** on the Remote Commander to store the selected page.

The page is now stored on this button.

Repeat steps 1 to 3 for the other 3 pages available.

Displaying the Favourite pages

1 Press **→** **15**.

2 Press the colour button **6** corresponding to the colour prompt onto which the desired page is stored.

The page is requested. (It may take a few seconds to be received).

Note: Step 1 must be taken before every favourite page selection otherwise the normal Fastext facility operates.

Using the Time Function in the TV mode

Press **⏻** **12** to request the time. Press again to cancel the request.

Note: This function is available only when teletext is broadcast.

Connecting Other Equipment

You can connect optional audio/video equipment to this TV such as VCRs, video disc players, cameras or stereo systems.

Connector	Acceptable input signal	Available output signal
→ 1 M (AV1/RGB)	Audio/video and RGB signal	Audio/video signal from TV Tuner
↔ 2/↔ 2 L (AV2/YC2)	Audio/video and S-video signal	Audio/video signal from selected source
→ 3/→ 3 G H (AV3)	Audio/video signal	No outputs
→ 3/→ 3 G I (YC3)	Audio/S-video signal	No outputs

To watch a video input picture, press → 2 until the desired video input appears.

To return to the normal TV picture, press → 2 repeatedly or press □ 3.

If you have a decoder, connect it to → 1 **M**.

Connecting a VCR Using the TV Aerial Terminal

Connect the aerial output of the VCR to the aerial terminal **K** of the TV. It is recommended to tune in the VCR signal to programme number "0". For details, see "Tuning in to Channels Manually" on page 20.

S video input (Y/C input) **L L**.

Video signals may be separated into Y (luminance or brightness) and C (chrominance) signals.

Separating the Y and C signals prevents them from interfering with each other and therefore improves the picture quality (especially luminance). This TV is equipped with 2 video input terminals through which these signals can be input directly.

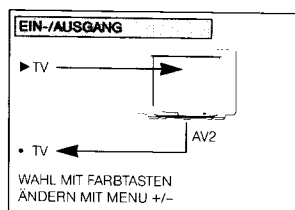
Checking and Selecting the Input and Output Sources Using the Menu

You can display a menu screen to see which input and output source are selected. You can also change the selecting using this menu.

Checking the Input and Output Sources

1 Press **MENU** 7.
The MENU screen appears.

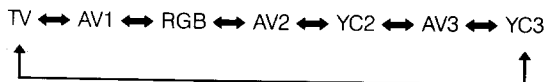
2 Press the blue button 17 to select INPUT/OUTPUT.
The INPUT/OUTPUT screen appears.



Selecting an Input Signal

Press the red button 17 to select INPUT. Press MENU +/- 9 to select the desired input source.

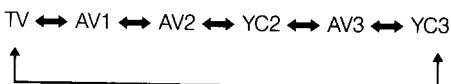
You can select among the following sources:



Selecting an Output Signal

The ↔ 2/↔ 2 connector **L** outputs the source input from the other connectors. Press the green button 17 to select OUTPUT. Press MENU +/- 9 to select the desired output source.

You can select among the following sources:



Note: Press 7 twice or wait until the menu display disappears automatically to return to the normal screen.

Remote Control of Other Sony Equipment

You can use the TV Remote Commander to control most Sony remote-controlled video equipment such as: Beta, 8 mm or VHS VCRs or video disc players.

Tuning the Remote Commander to the equipment

1 Set the VTR 1/2/3 MDP selector 20 according to the equipment you want to control:

VTR 1: Beta or VCR

VTR 2: 8mm VCR

VTR 3: VHS VCR

MDP: Video Disc Player

2 Use the buttons 24 to operate the additional equipment.

Notes:

- If your video equipment is furnished with a COMMAND MODE selector: set this selector to the same position as the VTR 1/2/3 MCP selector on the TV Remote Commander.
- If the equipment does not have a certain function, the corresponding button on the Remote Commander will not operate.
- When you use the ● (record) button, make sure to press this button and the one to the right of it simultaneously.

Using Headphones

You can utilise headphones. Connect them to the headphone jack **L**, then the sound from the speakers goes off.

Note: You can't control the sound adjustment except for volume.

For your Information

Troubleshooting

Here are some simple solutions to problems which may affect the picture and sound.

No picture (screen is dark), no sound

- Plug the TV in.
- Press ① **A** on the TV. (If the standby indicator **B** is lit, press **□** ③ or any number button ④ on the Remote Commander.)
- Check if the selected video source is on.
- Turn the TV off for three or four seconds and then turn it on again using ① **A**.

Poor or no picture (screen is dark), but good sound

- Press MENU ⑦ to enter the MENU screen, and press the red button ⑩, then adjust ⑨ and ⑪.

Good picture but no sound

- Press \triangle + ⑩.
- If \times is displayed on the screen, press \times ①.

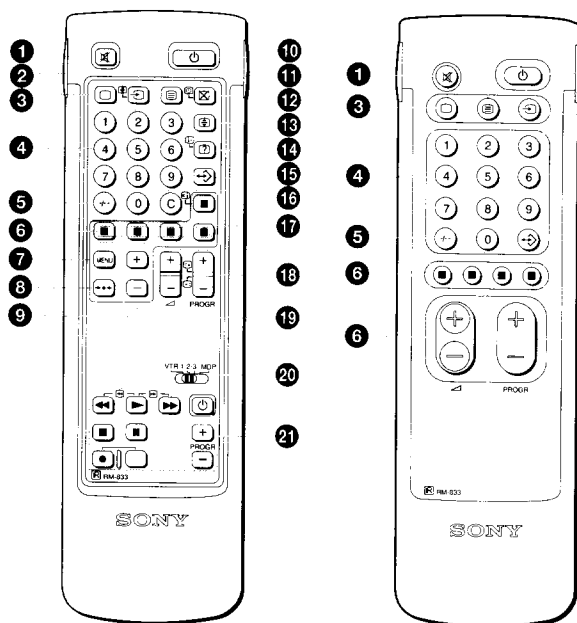
No colour for colour programmes

- Press MENU ⑦ to enter the MENU screen, and press the red button ⑩, then adjust ③.

Remote Commander does not function

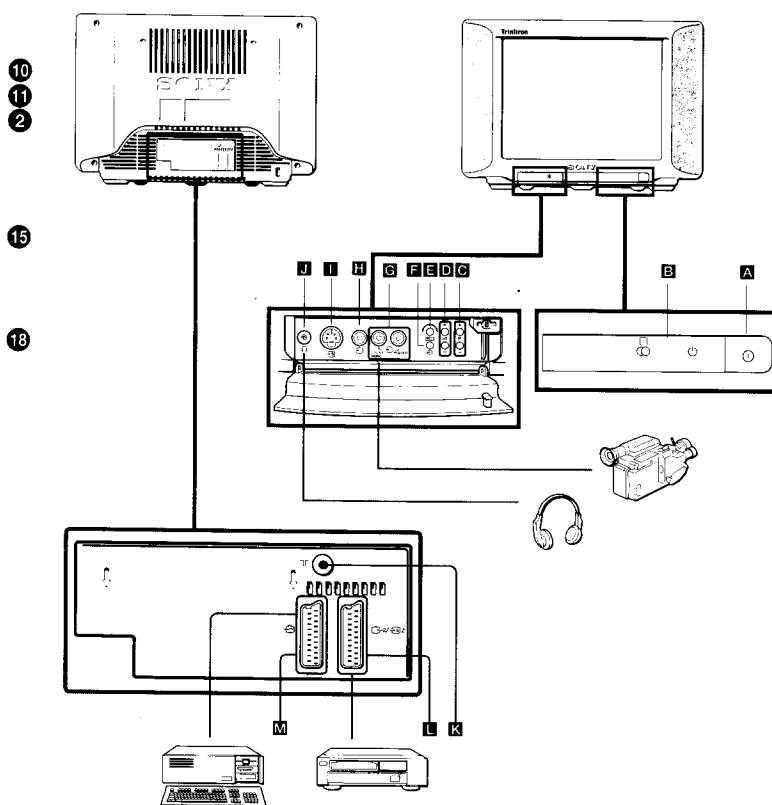
- Replace the battery.

If you continue to have problems, have your TV serviced by qualified personnel. Never open the casing yourself.



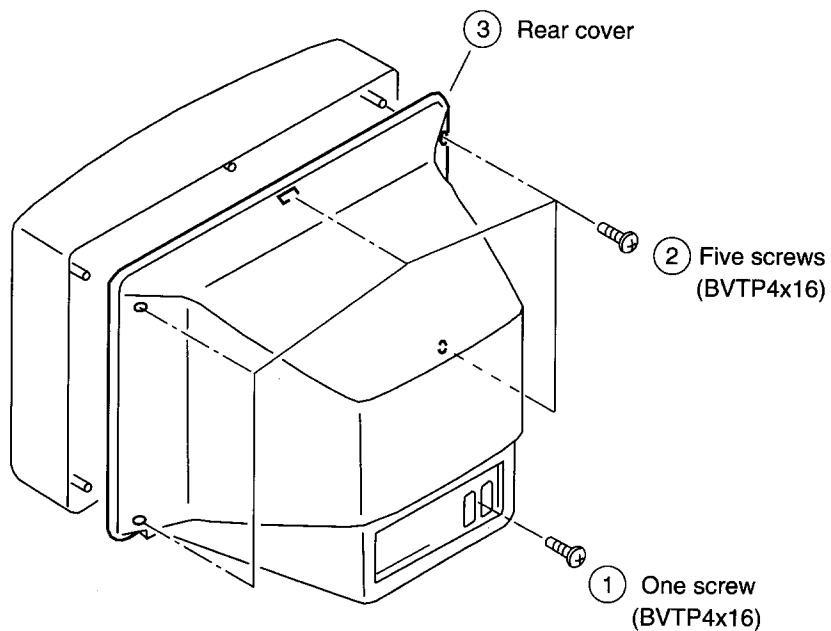
Vollständige Seite
Full-Function Side

Vereinfachte Seite
Simple Side

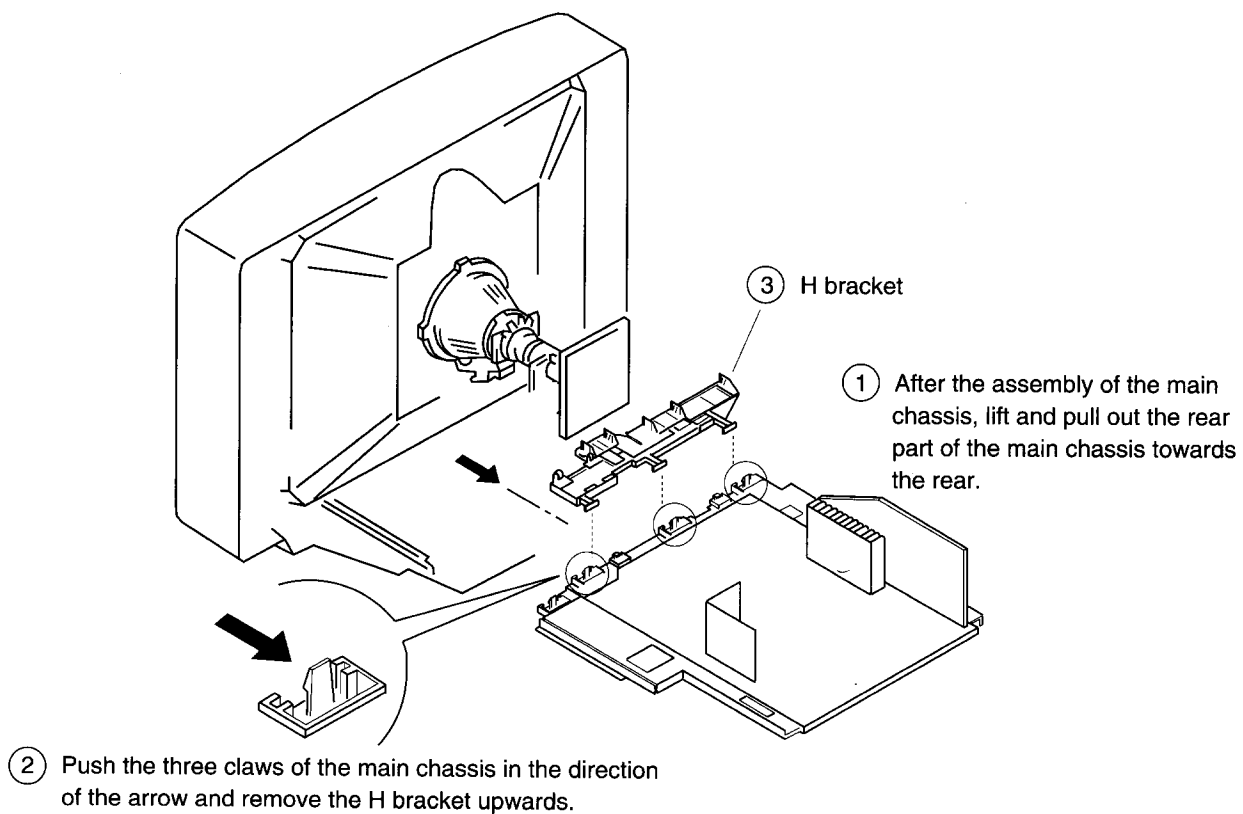


SECTION 2 DISASSEMBLY

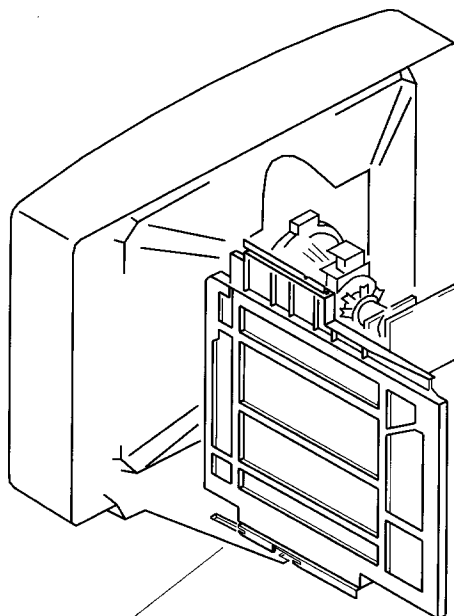
2-1. REAR COVER REMOVAL



2-2. CHASSIS ASSY REMOVAL

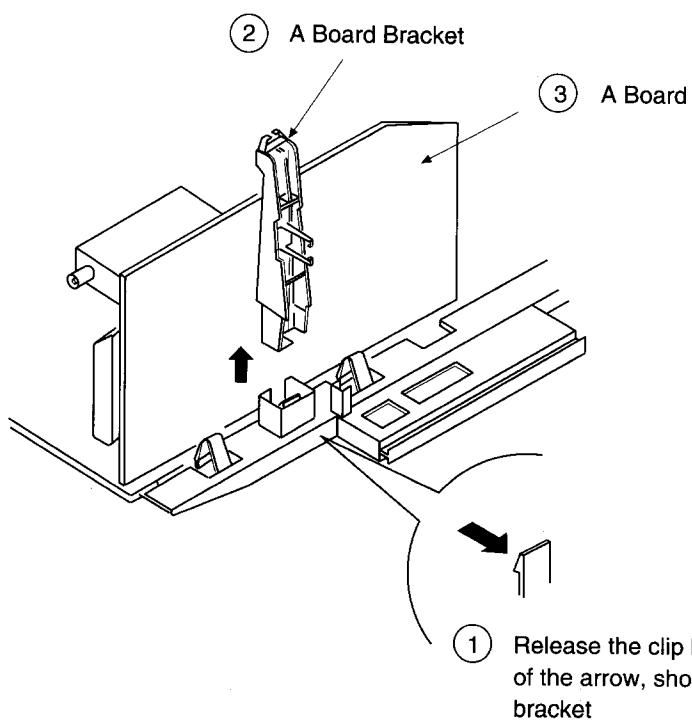


2-3. SERVICE POSITION

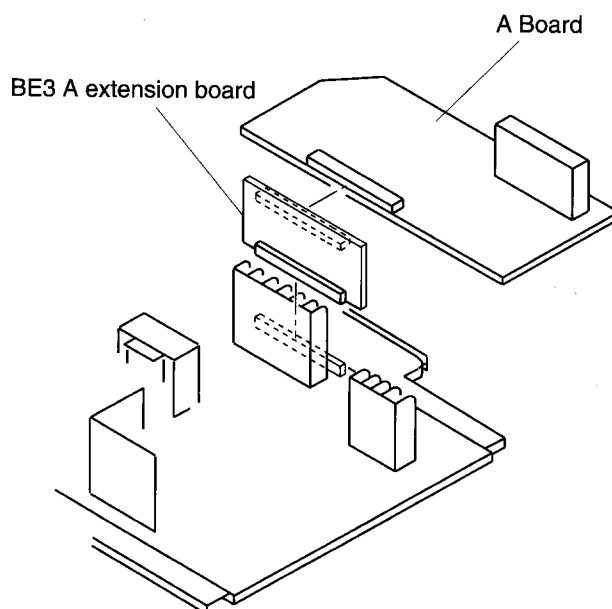


Locate the 2 slots on the edge of the chassis bracket in the locating holes and slide in the direction of the arrow

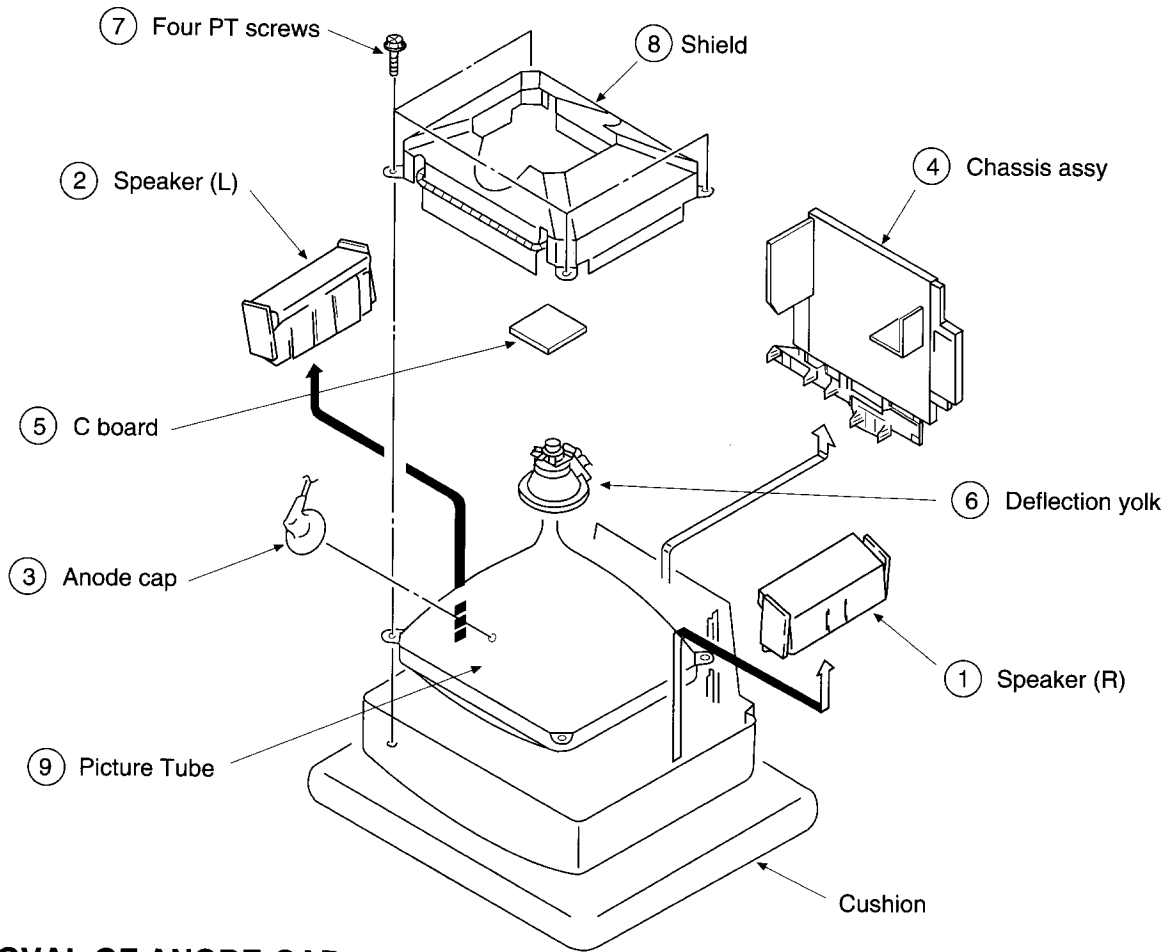
2-4. A BOARD REMOVAL



2-5. EXTENSION BOARD



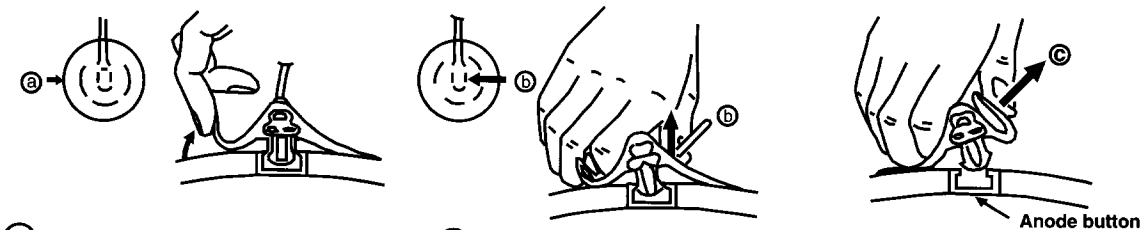
2-6. PICTURE TUBE REMOVAL



• REMOVAL OF ANODE-CAP

Note: Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT, after removing the anode.

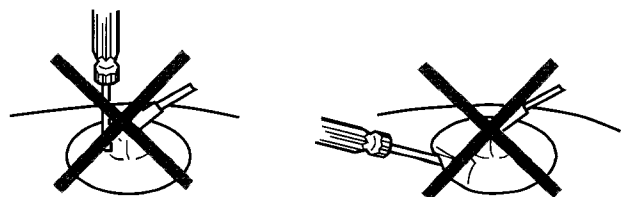
* REMOVING PROCEDURES.



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②
- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ③

• HOW TO HANDLE AN ANODE-CAP

- ① Don't damage the surface of anode-cap with sharp shaped material !
- ② Don't press the rubber hardly not to hurt inside of anode-caps !
A metal fitting called as shatter-hook terminal is built into the rubber.
- ③ Don't turn the foot of rubber over hardly !
The shatter-hook terminal will stick out or damage the rubber.



SECTION 3

SET - UP ADJUSTMENTS

- When complete readjustment is necessary or a new picture tube is installed, carry out the following adjustments.
- Unless there are specific instructions to the contrary, carry out these adjustments with the rated power supply.
- Unless there are specific instructions to the contrary, set the controls and switches to these settings :

● Contrast 80% (or remote control normal)
 ⚙ Brightness 50%

- Carry out the following adjustments in this order :
 1. Beam landing
 2. Convergence
 3. Focus
 4. White balance

Note: Testing equipment required.

1. Color bar/pattern generator
2. Degausser
3. DC power supply
4. Digital multimeter
5. Oscilloscope

Preparation:

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
 CONTRAST } normal
 BRIGHTNESS }
2. Position neck assy as shown in Fig.3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke forward and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side. (See Fig. 3-1 - 3-3)
5. Move the deflection yoke forward and adjust so that the entire screen becomes red. (See Fig. 3-1)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it. (See Fig. 3-4)

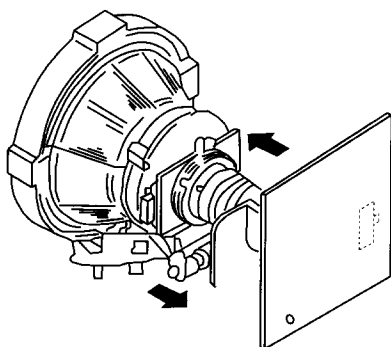


Fig. 3-1

Fig. 3-2

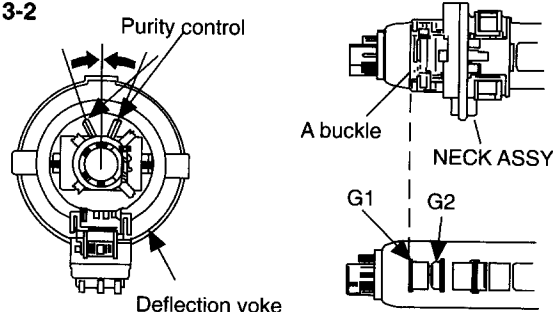


Fig. 3-3

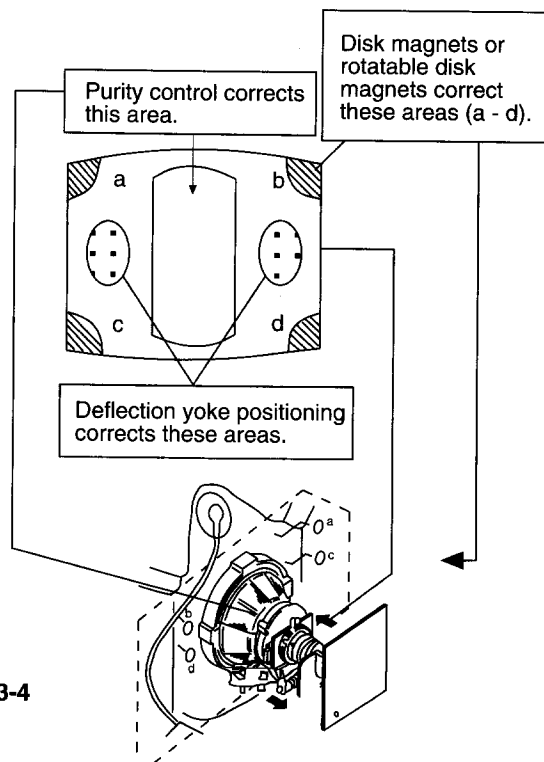
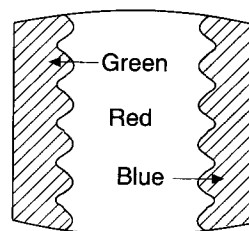


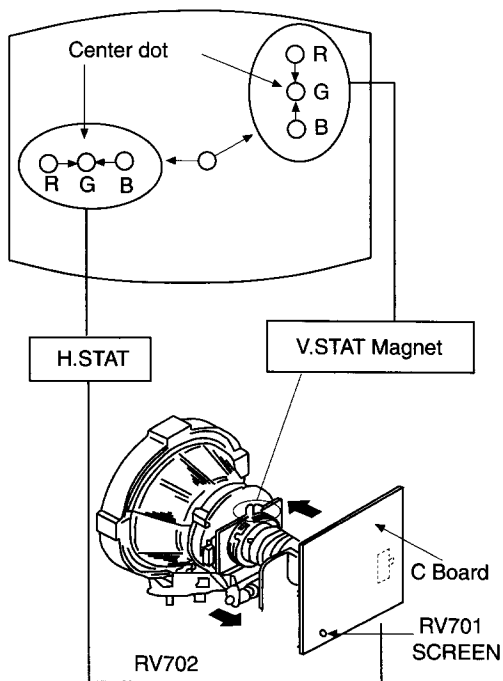
Fig. 3-4

3-2. CONVERGENCE

Preparation:

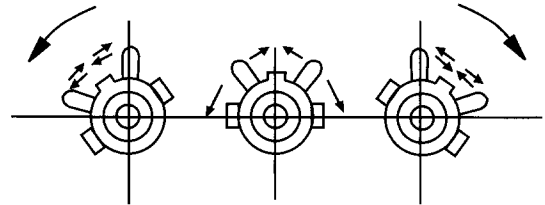
- Before starting this adjustment, adjust the focus, horizontal size, and vertical size.
- Minimize the brightness setting.
- Provide a dot pattern.

(1) Horizontal and vertical static convergence

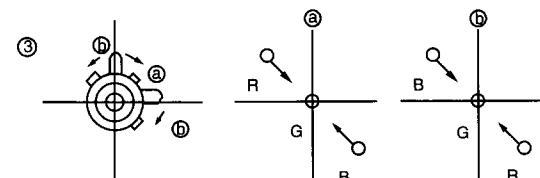
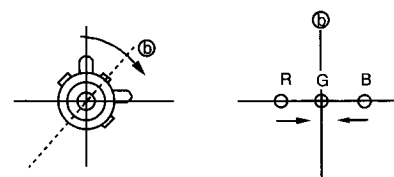
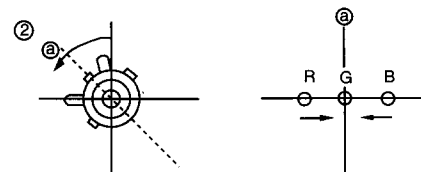
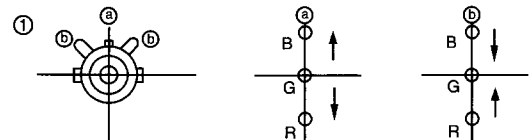


1. (Moving horizontally), adjust the H.STAT control so that the red, green, and blue points are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green, and blue points are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green, and blue points together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other)

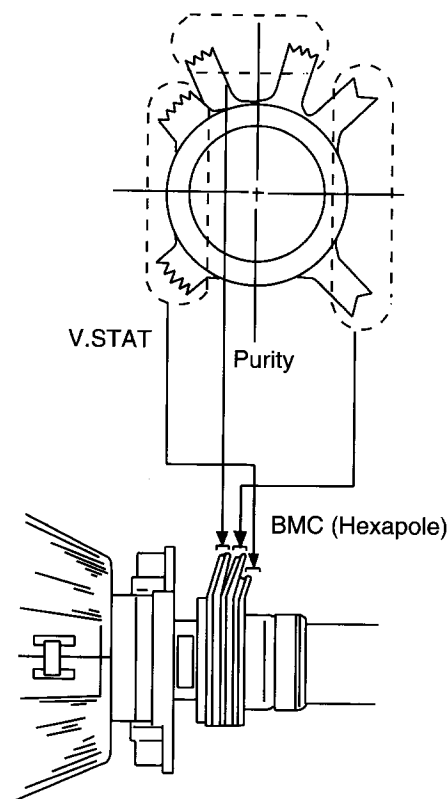
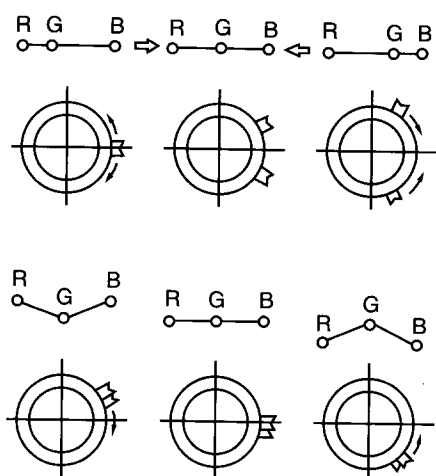
- Tilt the V.STAT magnet and adjust the static convergence by opening or closing the V.STAT magnet.



4. If the V.STAT magnet is moved in the direction of the (a) and (b) arrows, the red, green, and blue points move as shown below.



- Operation of BMC (Hexapole) Magnet



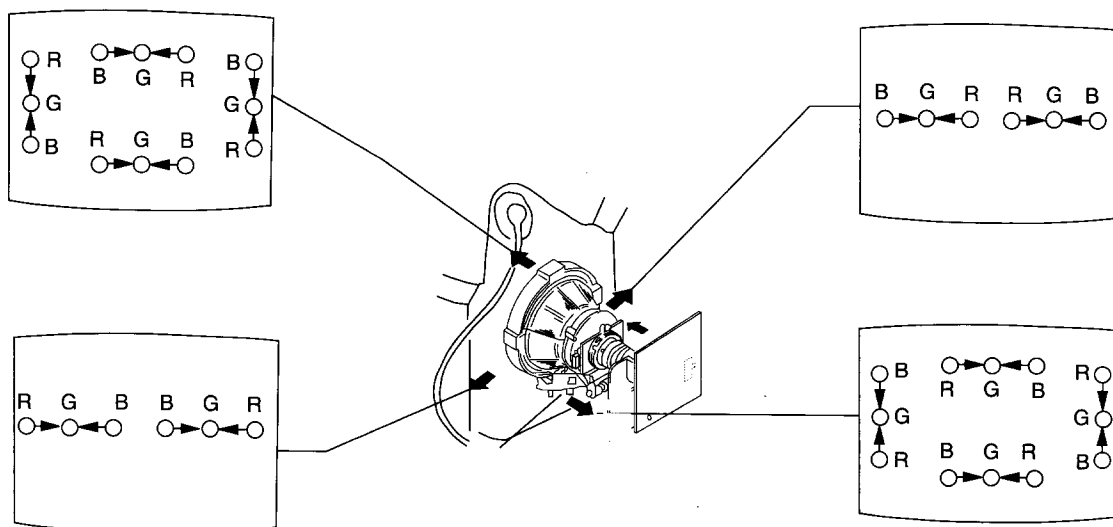
- The respective dot position resulting from moving each magnet interact, so be sure to perform adjustment while tracking.
Use the H.STAT VR to adjust the red, green, and blue dots so they coincide at the center of the screen (by moving the dots in the horizontal direction).

(2) Dynamic convergence adjustment.

Preparation:

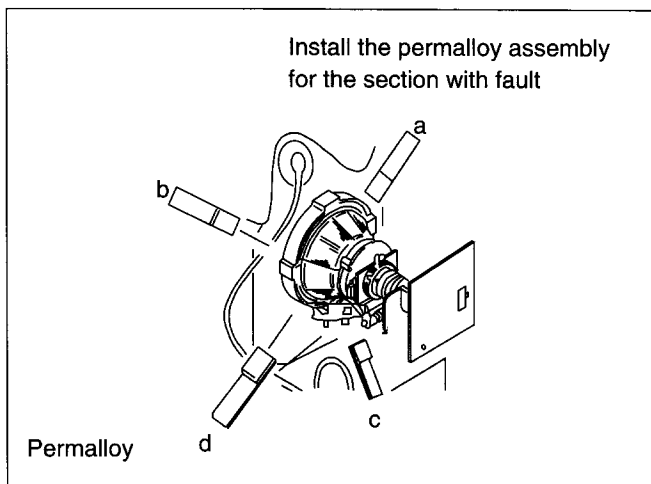
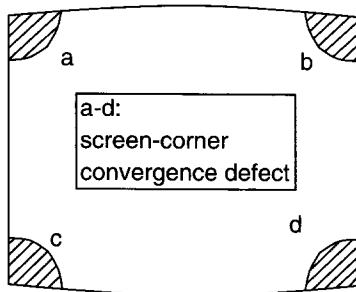
- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence.
- Slightly loosen the deflection yoke screws.

- Remove the deflection yoke spacer.
- Move the deflection yoke as shown in the figure below and optimize the convergence.
- Tighten the deflection yoke screws.
- Re-install the deflection yoke spacer.

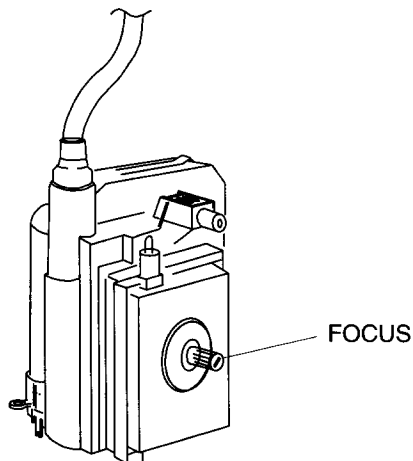


(4) Screen corner convergence.

If you are unable to adjust the corner convergence properly, correct them with the use of permalloy assemblies.

**3-3. Focus**

Adjust the focus to optimize the screen.

**3-4. WHITE BALANCE****Screen G2 Setting**

1. Input the dot signal from the pattern generator.
2. Set the picture brightness control to its lowest level.
3. Apply 180V DC to the R,G, and B cathodes with an external power supply.
4. While watching the picture, adjust G2 control RV701 (Screen) to the point just before the return lines disappear.

White balance adjustment

1. Receive an all-white signal.
2. Enter into service mode. (Refer to the section 4 "Electrical Adjustment" on how to enter service mode.)
3. Select TDA8366 1 on menu.

DEVICE : TDA8366 1

STAT : 12

- ☐ NEXT
- ☐ PREVIOUS
- ☐ OK

USE COLOUR KEYS
SONY TEST MENU.

4. Press the White button on the Remote Commander to enter into the device Menu.
5. Press the Red button 10 times "Next" "Next" "Next" to select HWB RED, adjust to 040.
6. Press the Red button to select HWB GREEN, adjust with the + and - menu buttons so that the white balance becomes optimum.
7. Press the Red button to select HWB BLUE, adjust with the + and - menu buttons so that the white balance becomes optimum.
8. Press the TV button twice on the Remote Commander to store the data and return to TV operation.

SECTION 4

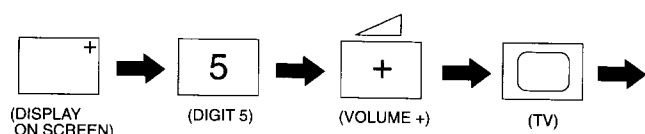
CIRCUIT ADJUSTMENTS

4-1. ELECTRICAL ADJUSTMENTS

Service adjustment to this model can be performed with the supplied remote commander RM-833.

HOW TO ENTER INTO SERVICE MODE

1. Turn on the main power switch of the set and enter into standby mode.
2. Press the following sequence of buttons on the Remote Commander.



“TT” will appear in the top right corner of the screen. Other status information will also be displayed.

3. Press the MENU button on the Remote Commander to obtain the menu on the screen.

DEVICE NAME

STAT : xxxx

☐ NEXT

☐ PREVIOUS

☐ OK

USE COLOUR KEYS
SONY TEST MENU.

4. Press the Red (Next) and Green (Previous) buttons to select the device corresponding to the adjustment item from the table. Then press the White button (OK).

DEVICE NAME

00 ADJUSTMENT : xxx

☐ NEXT

☐ PREVIOUS

SELECT COL.BUTTON
CHANGE BY MENU +/-

5. Press the Red (Next) or Green (previous) buttons to select the adjustment item. Then press the and buttons to change the data to comply with each standard.
6. Turn off the power to quit the service mode when adjustments are completed.

Initial Conditions for setup of TDA8366, TDA6612 and SAA7283. (Stereo Models Only)

TDA8366 1	INIT VALUE	TDA8366 2	INIT VALUE
Hue	31	Interlace	00
H Shift	Adj	Sync Mode	00
H Size	Adj	Col Dec	00
Pin Amp	Adj	Vert Div	00
Corn Pin	Adj	Vid ID	00
Tilt	Adj	EHT Track	01
V.Linear	Adj	En V Grd	00
V.Size	Adj	Serv Blk	00
S.Corr	Adj	OVP Mode	00
V.Cent	Adj	Aspect R	00
HWB Red	Adj	Start Freq	00
HWB Green	Adj	Y/C Input	00
HWB Blue	Adj	PAL/NTSC	00
Peaking	8	Xtal PLL	00
Bright	32	Y Delay	07
Colour	32	RGB Blk	00
Picture	37	Noise Cor	00
AGC Set	00	Fast Blk	01
Srce Sel 1	00	AFC Wind	00
Srce Sel 2	00	IF Sensy	00
Time Con	03	Mod Std	00
Xtal Ind	03	Vid Mute	01
FF Freq	02		

TDA6612	INIT VALUE	TDA6612	INIT VALUE
MPX Per	00	Mute 2	01
Quasi St	00	C1/2LS	00
Bass Exp	00	C1/2KH	00
H Pulse	00	Mono	01
Matrix St	00	Scart	00
Bypass	00	Scart D	00
Vol L Sp	07	AM	00
Vol R Sp	07	SAA7283	INIT VALUE
Vol HP	00	Mon M1/M2	01
PII Sync	00	DM Select	01
Mute 3	01	SSWIT 123	07
Treble	08	Port 2	00
Bass	09	Mute Def	00
X Talk Adj	Adj	AMDIS	00
Mute 1	00	E Max	80
		E Min	01

4-2. TEST MODE 2 :

Is available by pressing Test button twice, OSD 'TT' appears. The functions described below are available by pressing the two numbers. To release the Test Mode 2, press 0 twice, or switch the TV into Stand-by Mode.

00	switch Test Mode 2 off
01	picture maximum
02	picture minimum
03	Volume 35%
04	Volume 50%
05	Volume 65%
06	Volume 80%
07	Ageing Condition (Volume min., Picture max., Brightness max.)
08	Shipping Condition (Analog Values are RESET due to factory setting, Prog 1 is selected, TT Mode is switched off)
09	"Menu" Flag request
10	Tenth entry is deleted
11	dummy
12	dummy
13	dummy
14	Forced AV 16:9 detection on/off
15	Read factory setting from NVM Reads Volume, Balance, Treble, Bass, Brightness, Contrast, Hue, Sharpness, Colour values from ROM to the actual used values (Last Power Memory)
16	Save actual used values as RESET values Memorize actual used values Balance, Treble, Bass, Hue, Sharpness at RESET position in NVM.
17	Preset Label for AV Sources
18	RGB Priority on/off
19	Clear all preset labels
20	Tenth entry is deleted
21	Sub Contrast
22	Sub Colour
23	Sub Brightness
24	Set destination = U RGB Priority = Off
25	Set destination = D RGB Priority = Off
26	Set destination = B RGB Priority = On
27	Set destination = K RGB Priority = Off
28	Set destination = L RGB Priority = Off
29	Set destination = E RGB Priority = Off

30	Tenth entry is deleted
31	Set Destination = A RGB Priority = On
32	dummy
33	Auto AGC
34	N/S Pin Adjust
35	Manual AGC Adjust
36	dummy
37	dummy
38	dummy
39	dummy
40	Tenth entry is deleted
41	Re-initialise NVM
42	Production use only
43	Initialise Geom Settings
44	Initialise all favorite pages = 100
45	Channel locks = off
46	IR Channel Presetting Mode The channel presetting can be done by a Special IR Transmitter (Ver 2 and above software only)
47	dummy
48	Set NVM testbyte to 44h
49	Erase the NVM Testbyte (this byte detects already stored NVM's) After selecting this function, switch TV Off and On -> the NVM will be preset by μ -Controller.

In Test Mode the Menu display is switchable by the Speaker-Off button.

Note : For Test Modes 41 - 49 it is necessary to ensure that the TV is set to Prog 59.

SUB BRIGHTNESS ADJUSTMENT

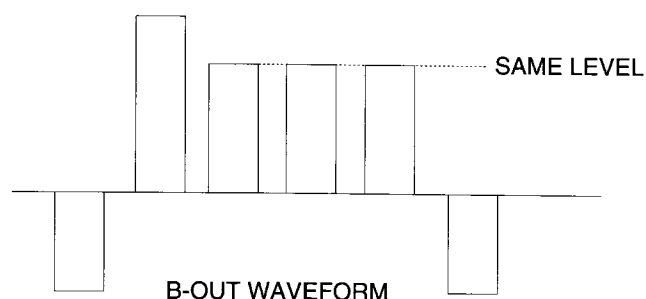
1. Input a Phillips pattern.
2. Enter into service mode and press 23.
3. Adjust data so that 0-IRE of grey scale and CUT-OFF 20-IRE are only slightly visible on screen.

SUB CONTRAST ADJUSTMENT

1. Input a video that contains a small 100% area on a Black Background.
2. Enter into service mode and press 01 to have PIC max followed by 21.
3. Connect oscilloscope to pin ① of CN703 (R OUT) and adjust HWB Red data of TDA8366 1 to obtain 2.3Vp-p.

SUB COLOR ADJUSTMENT

1. Input a PAL color bar signal.
2. Connect an oscilloscope to pin ③ of CN703 (B OUT) on the C board.
3. Enter into service mode and press 22.
4. Adjust data so that the right sides of the waveform are set to the same level.

**STEREO SEPARATION ADJUSTMENT**

1. Input a 1KHz stereo signal to the L-ch and a 400Hz stereo signal to the R-ch.
2. Enter into service mode and select the "Test Menu" to be TDA6612.
3. Select the Stereo Xtalk Adjustment Menu, by using the Red (Next) and Green (Previous) buttons.
4. Monitor the Scart 1 L-channel output and adjust the data so that the R-channel sound is not detected in the L-channel.

I.F. COIL ADJUSTMENT (T101) - B/G, D/K, I AND L STANDARD FOR CONTINENTAL MODELS.

1. Apply a 38.9MHz signal at 100dBuV to the input of SWF101.
2. Receive a channel so that the I.C. is selected for negative modulation.
3. Measure the voltage at the AFT test point and adjust (T101) to obtain 2.4V +/- 0.2V.

I.F. COIL ADJUSTMENT (T101) - I, STANDARD FOR U.K. MODELS.

1. Apply a 39.5MHz signal at 100dBuV to the input of SWF101.
2. Receive a channel so that the I.C. is selected for negative modulation.
3. Measure the voltage at the AFT test point and adjust (T101) to obtain 2.4V +/- 0.2V.

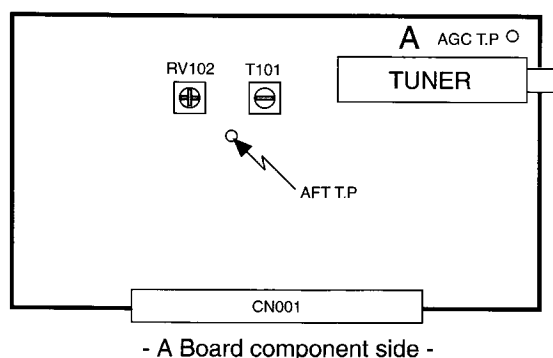
L, BAND 1 ADJUSTMENT (RV102) - L, STANDARD FOR FRENCH MODELS.

1. Apply a 33.95MHz signal at 100dBuV to the input of SWF101.
2. Receive a channel so that the I.C. is selected for positive modulation and system L band 1.
3. Measure the voltage at the AFT test point and adjust (RV102) to obtain 2.4V +/- 0.2V.

Note : Only adjust RV102 after T101 has been correctly adjusted.

AGC ADJUSTMENT

1. Receive an off- air signal.
2. Enter the service mode, ("Test" "Test") and 35.
3. Adjust the data so that there is no snow or cross - modulation visible on the screen.
4. Change the receiving off-air channel, and confirm the above status.



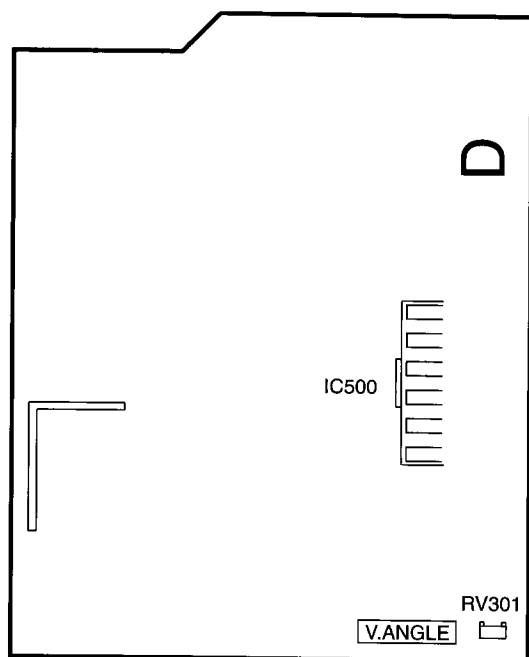
- A Board component side -

DEFLECTION SYSTEM ADJUSTMENT

1. Enter into service mode.
2. Select and adjust each item in order to obtain the optimum image.

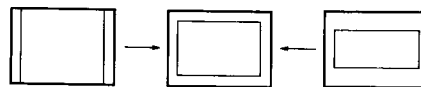
Item No	Adjustment item.	Data Amount
03	H SHIFT	ADJ.
04	H SIZE	ADJ.
05	PIN AMP	ADJ.
06	CORR PIN	ADJ.
07	TILT	ADJ.
08	V LINEAR	ADJ.
09*	V SIZE	ADJ.
0A	S CORR	ADJ.
0B	V CENTER	ADJ.

Note : V ANGLE is adjusted by a Variable Resistor on the 'D' Board (RV301)

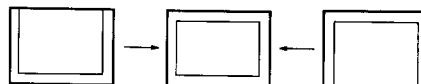


- D Board Component Side -

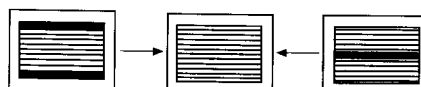
V SIZE



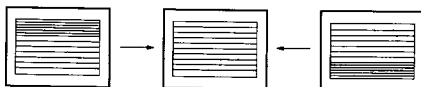
V CENTER



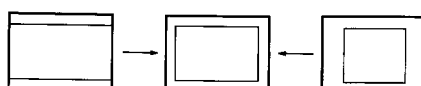
S CORR



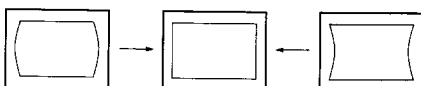
V LIN



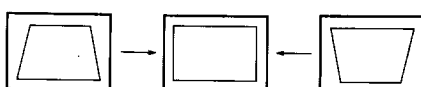
H SIZE



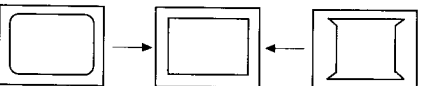
PIN AMP



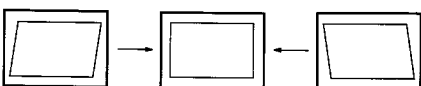
TILT



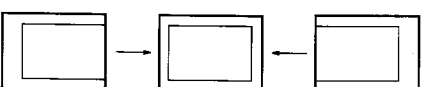
CORR PIN



V ANGLE



H SHIFT



4-3. BE3 SELF DIAGNOSTIC SOFTWARE

The identification of errors within the BE-3 chassis is triggered in 1 of 2 ways :- 1: Bus busy or 2: Device failiure to respond to IIC. In the event of one of these situations arrising the software will first try to release the bus if busy (Failiure to do so will report with continous flashing LED) and then communicate with each device in turn to establish if a device is faulty. If a device is found to be faulty the relevant device number will be displayed through the led (Series of flashes which must be counted) See Table 1., on fatal errors are reported with this method.

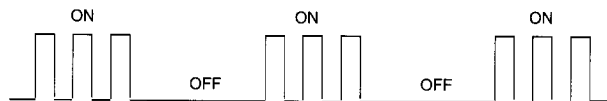
If a fatal error is found the set will simply stay in whichever state it was when the error occurred, but if a non fatal error occurs the set will try to continue operation.

Table 1

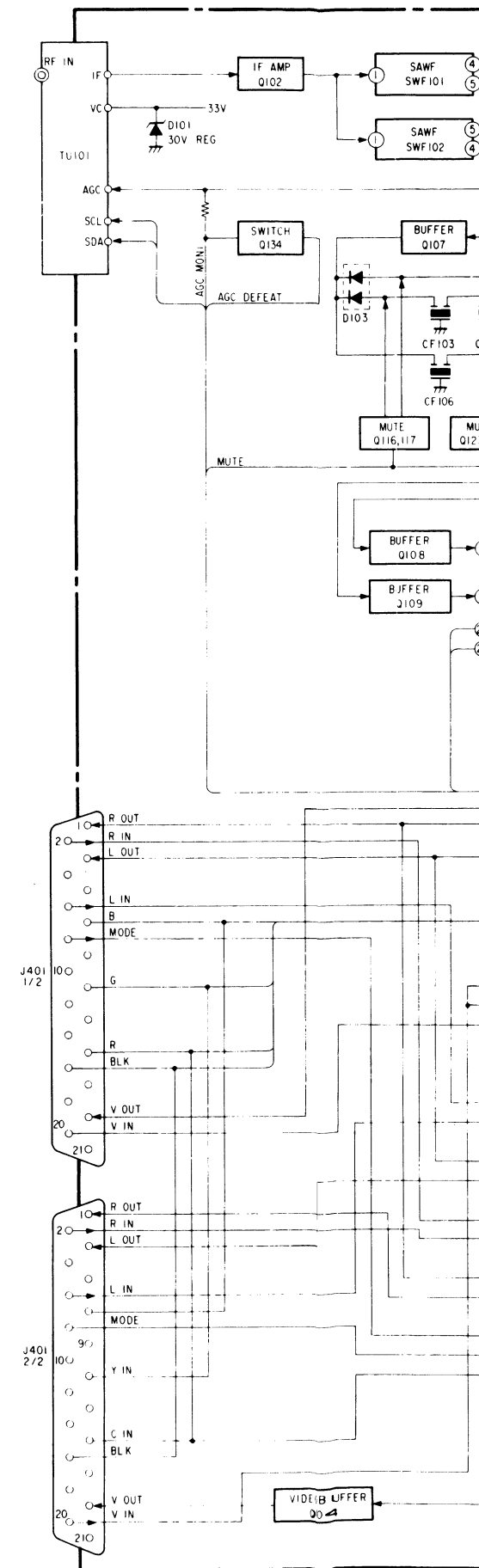
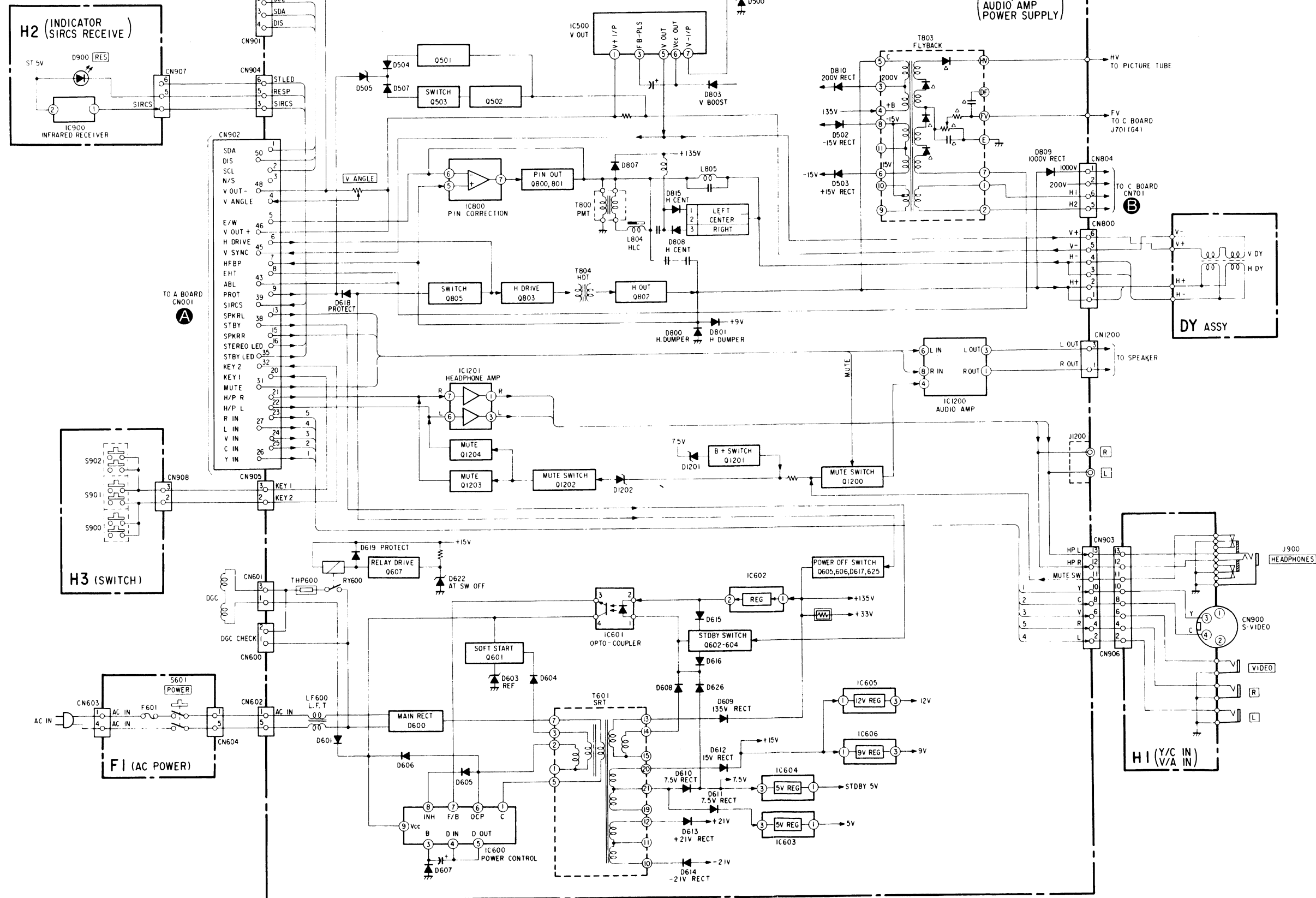
Device	LED Error Count	Fatal Error
NVM	2 .. 9	√
Teletext	10	
Jungle	11	√
Video_sw	12	
Tuner	13	√
Nicam	14	
Audio_cont	15	√

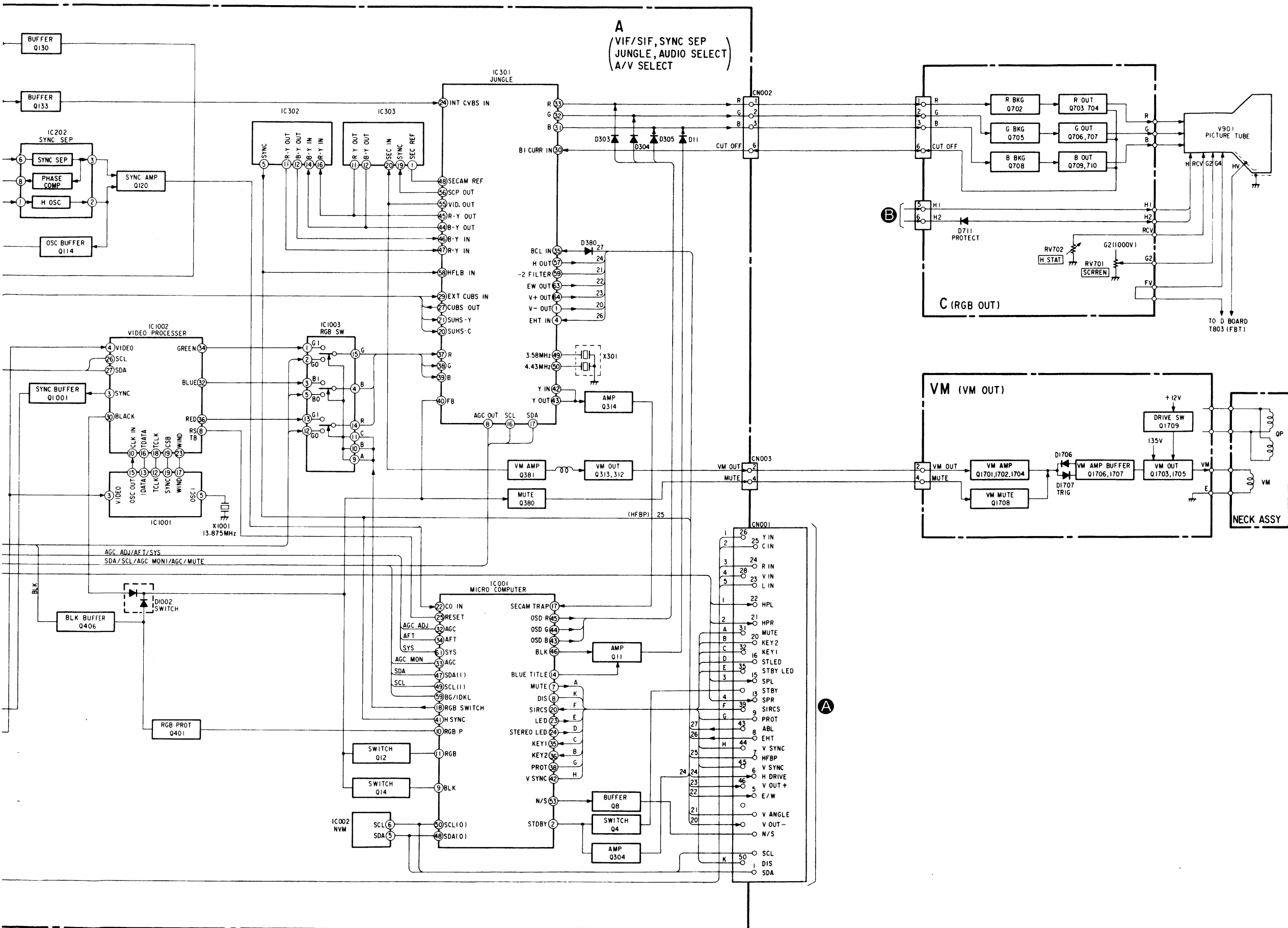
Flash Timing Example : e.g. error number 3.

Stby LED

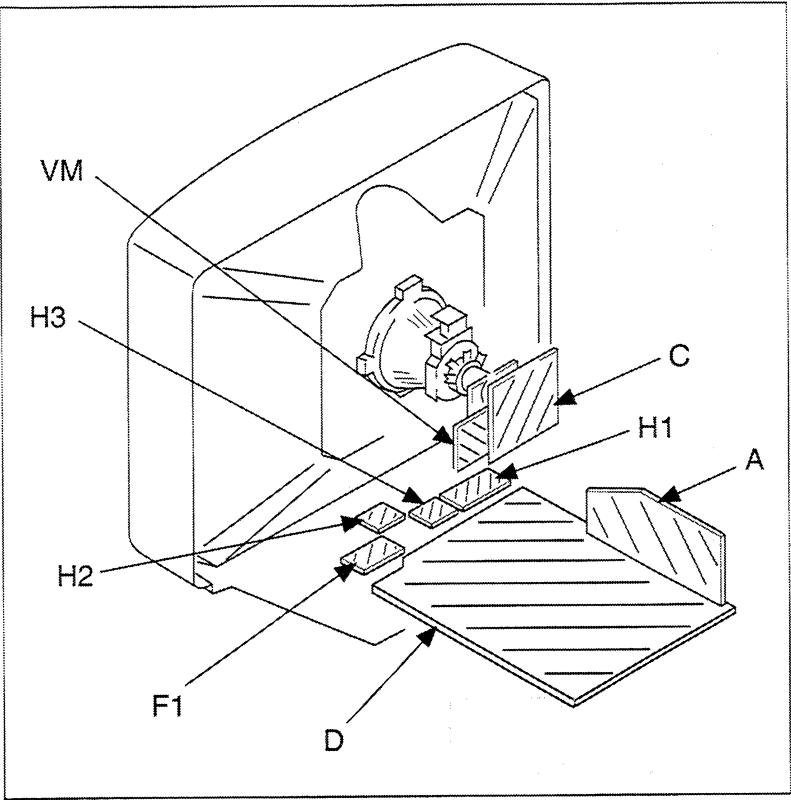


SECTION 5 DIAGRAMS





5-2. CIRCUIT BOARDS LOCATION



Reference information

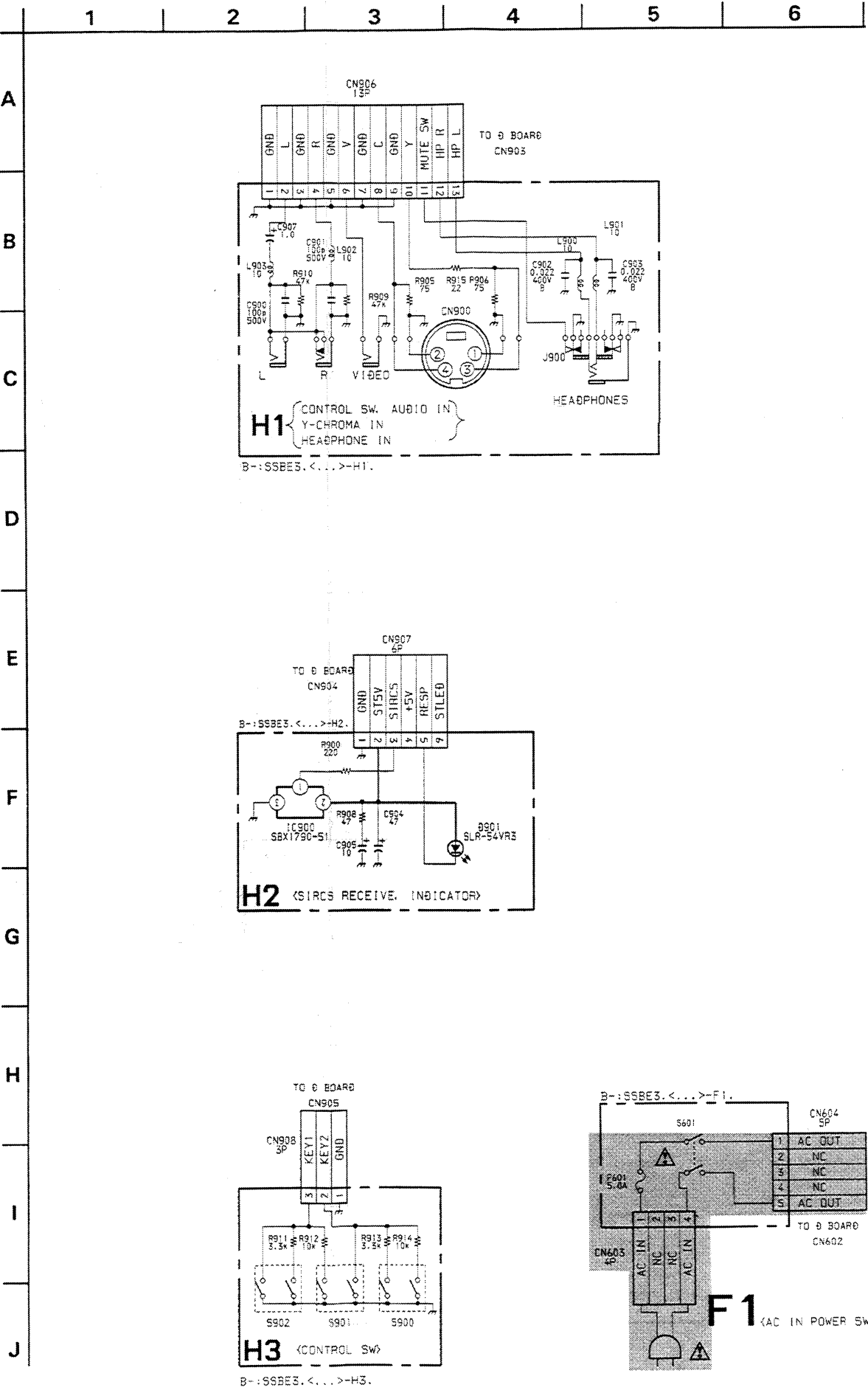
RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFLAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OXIDE
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
	*	: ADJUSTMENT RESISTOR
COIL	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note: The components identified by shading and mark are critical for safety. Replace only with part number specified.

Note: Les composants identifiés par une trame et par une marque sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro spécifié.

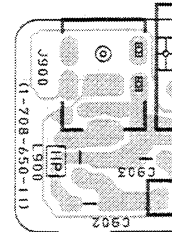
5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- Note:
- All capacitors are in μF unless otherwise noted.
 pF : $\mu\mu F$ 50WV or less are not indicated except for electrolytic.
 - Indication of resistance, which dose not have one for rating electrical power, is as follows.
Pitch: 5mm
Rating electrical power: $\frac{1}{4}W$
 - Chip resistor is in $1/10W$.
 - All resistors are in ohms.
 $k\Omega = 1000\Omega$, $M\Omega = 1000K\Omega$
 - : nonflammable resistor.
 - : fusible resistor.
 - Δ : internal component.
 - : panel designation or adjustment for repair.
 - All variable and adjustable resistors have characristic curve B, unless otherwise noted.
 - All voltages are in V.
 - Readings are taken with a $10M\Omega$ digital multimeter.
 - Readings are taken with a color-bar signal input.
 - Voltage variations may be noted due to normal production tolerances.
 - : B+ bus.
 - : B- bus.
 - : signal path.(RF)
 - : earth - ground
 - : earth - chassis

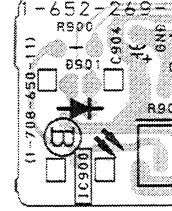


H1

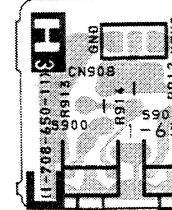
- H1 BOARD



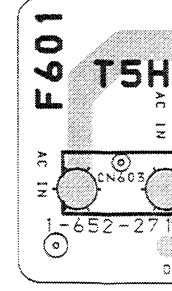
- H2 BOARD



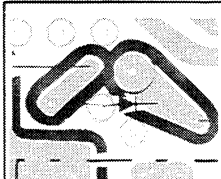
- H3 BOARD



- F1 BOARD

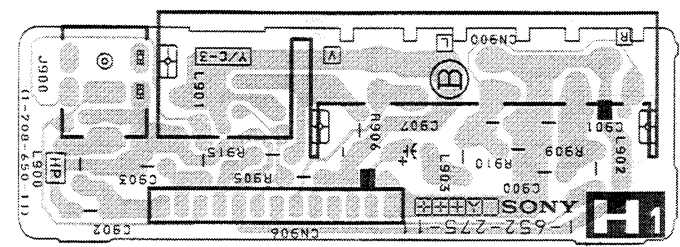


- H1** CONTROL SW, AUDIO IN
Y-CHROMA IN, HEADPHONE IN
- H2** SIRCS RECEIVE
INDICATOR
- H3** CONTROL SW
- F1** AC IN POWER SW
- D** HV OUT
PIN OUT
POWER SUPPLY

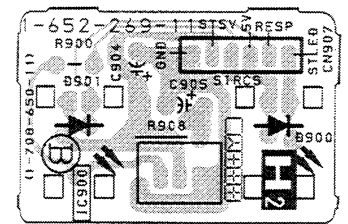


NOTE:
The circuit in
600 Vp-p. Car
inspection or r

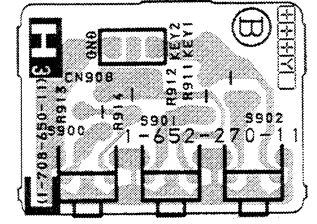
- H1 BOARD -



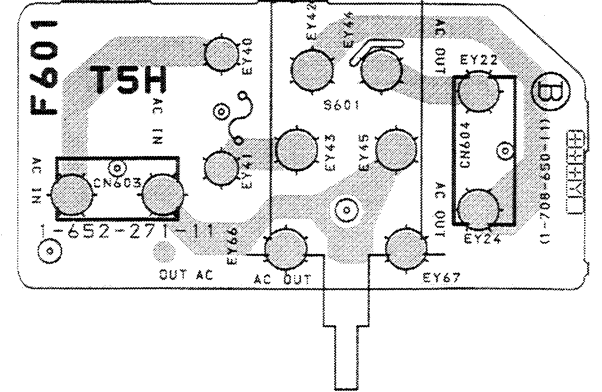
- H2 BOARD -



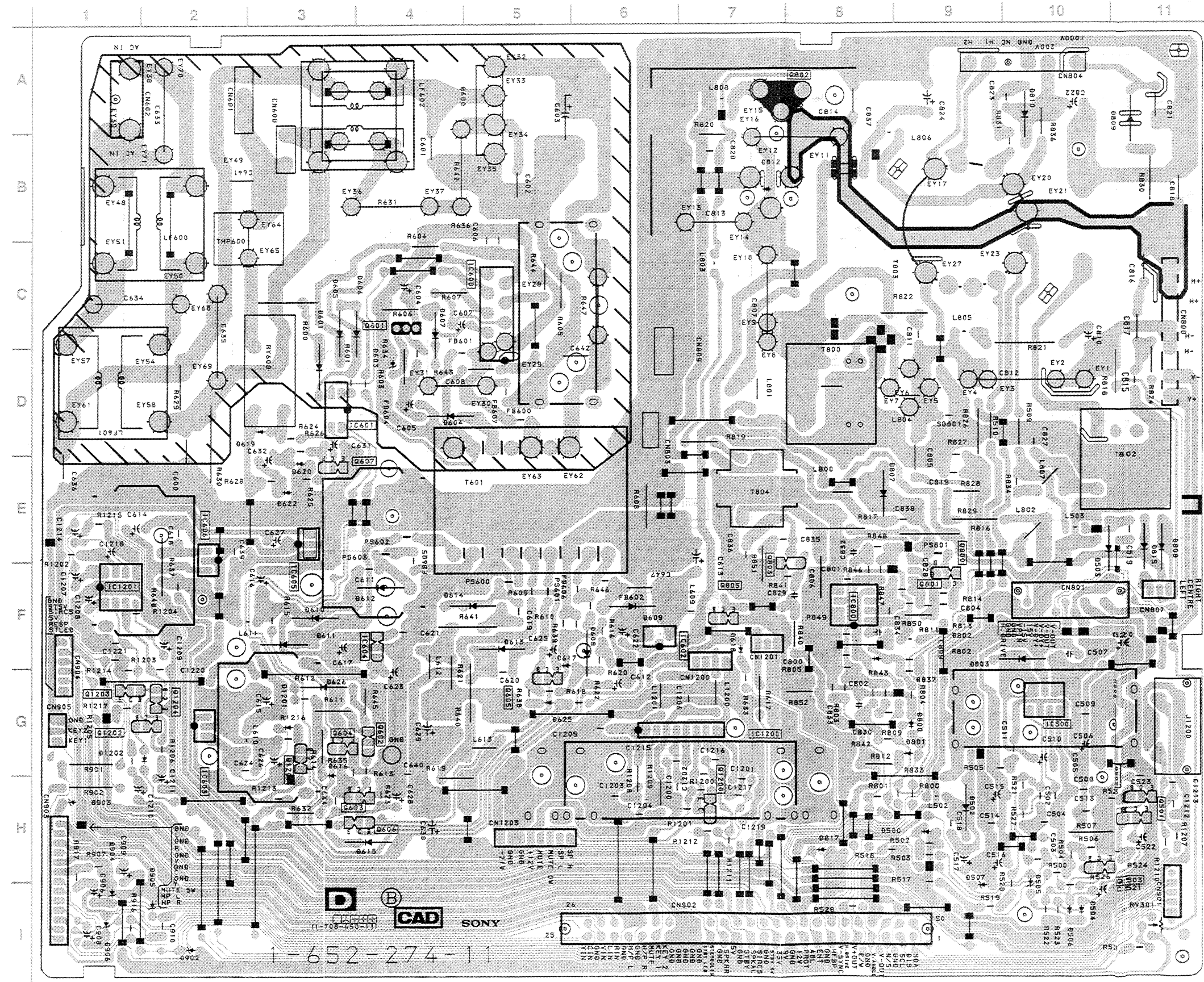
- H3 BOARD -



- F1 BOARD -



- D BOARD -



CN604
SP
AC-DUT
NC
NC
NC
AC-DUT
TO B BOARD
CN602

N POWER SW

12

SIRCS RECEIVE
INDICATOR

H3

[CONTROL SW]

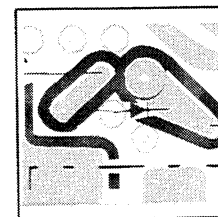
F1

[AC IN POWER SW]

D

HV OUT
PIN OUT
POWER SUPPLY

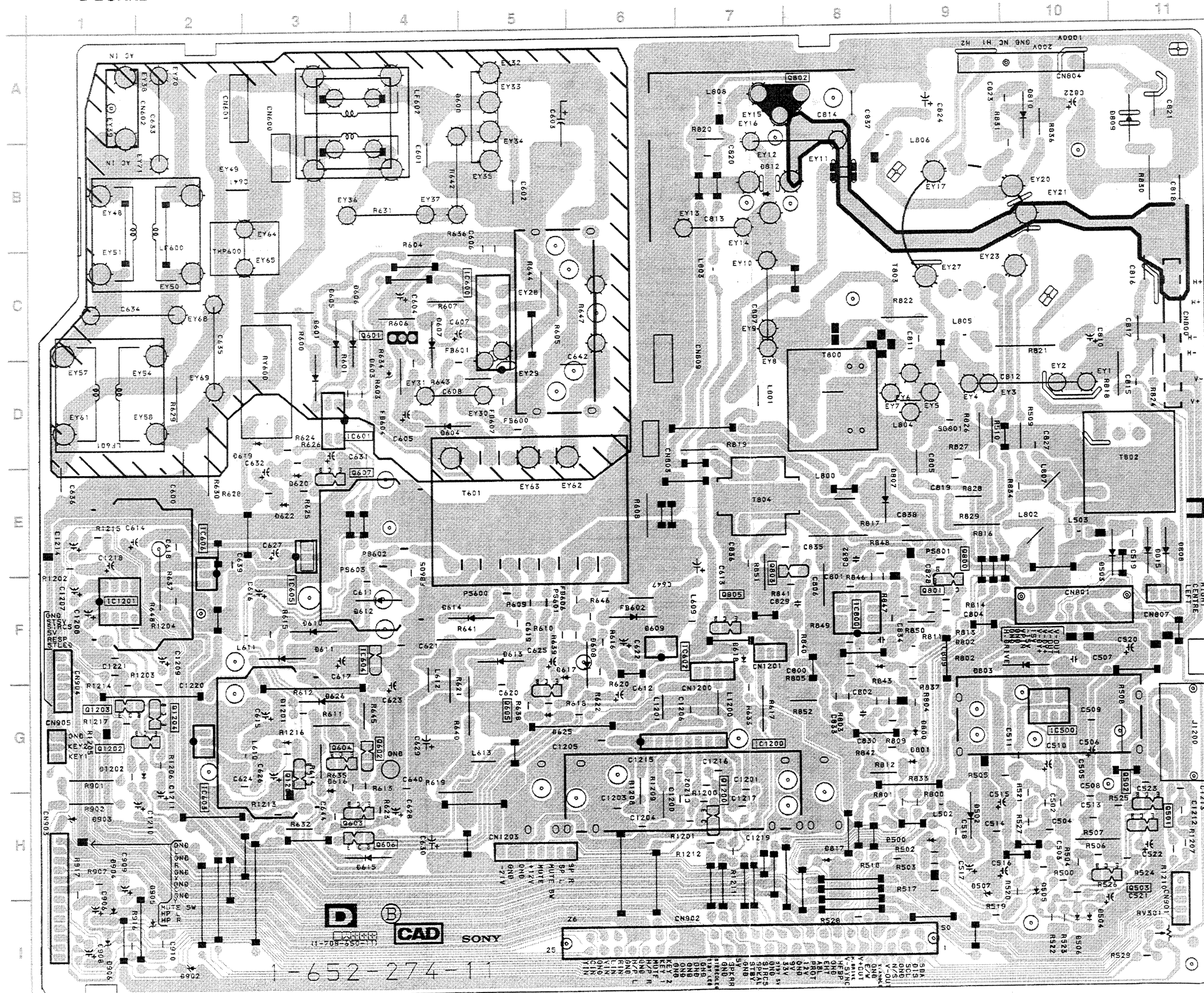
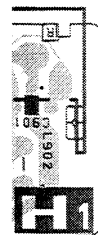
- D BOARD -

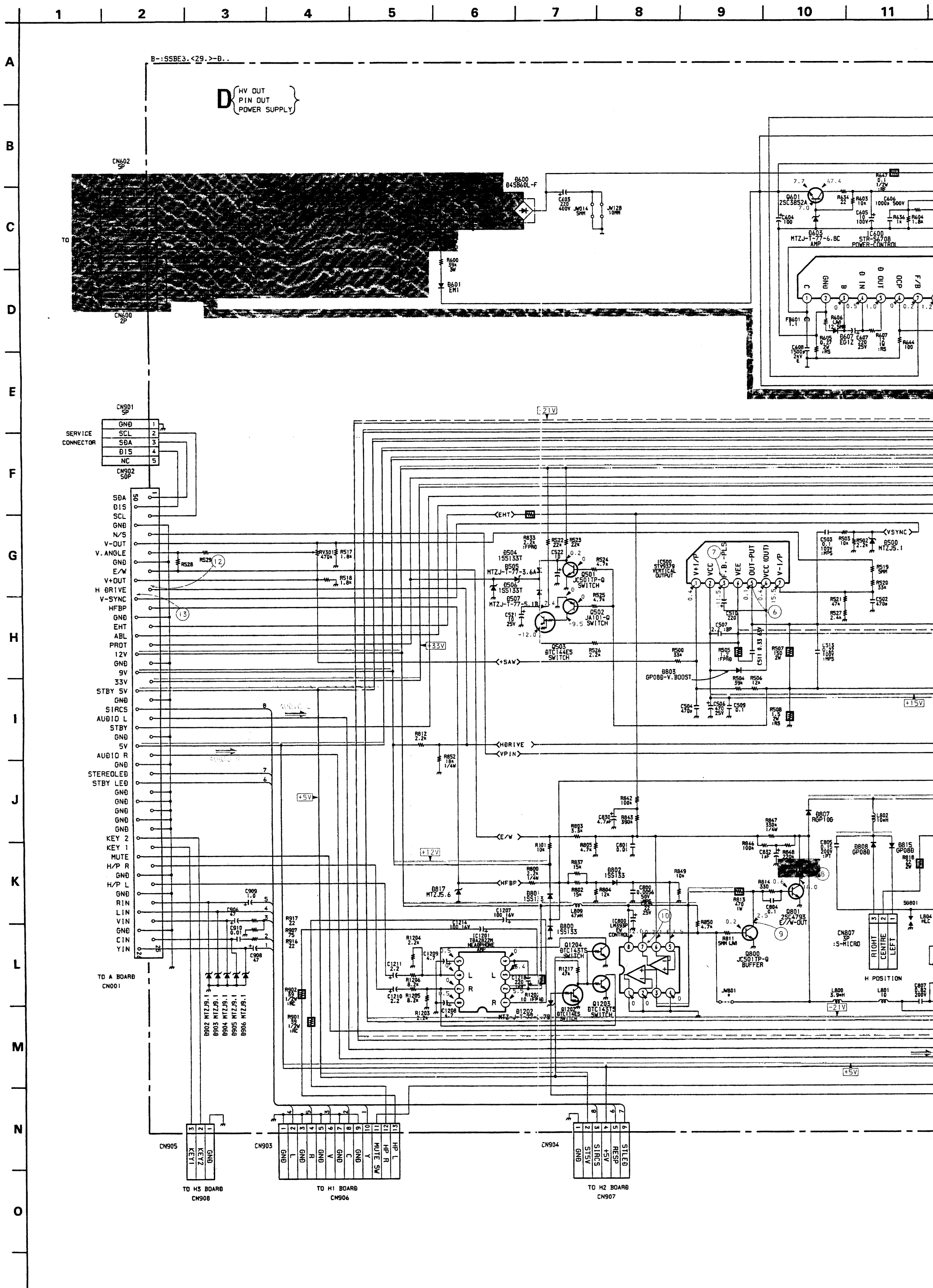


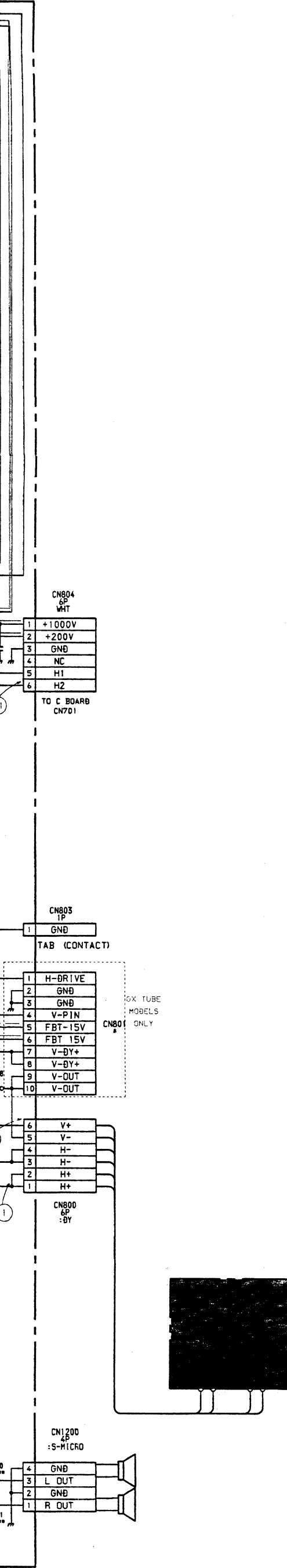
NOTE:

The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

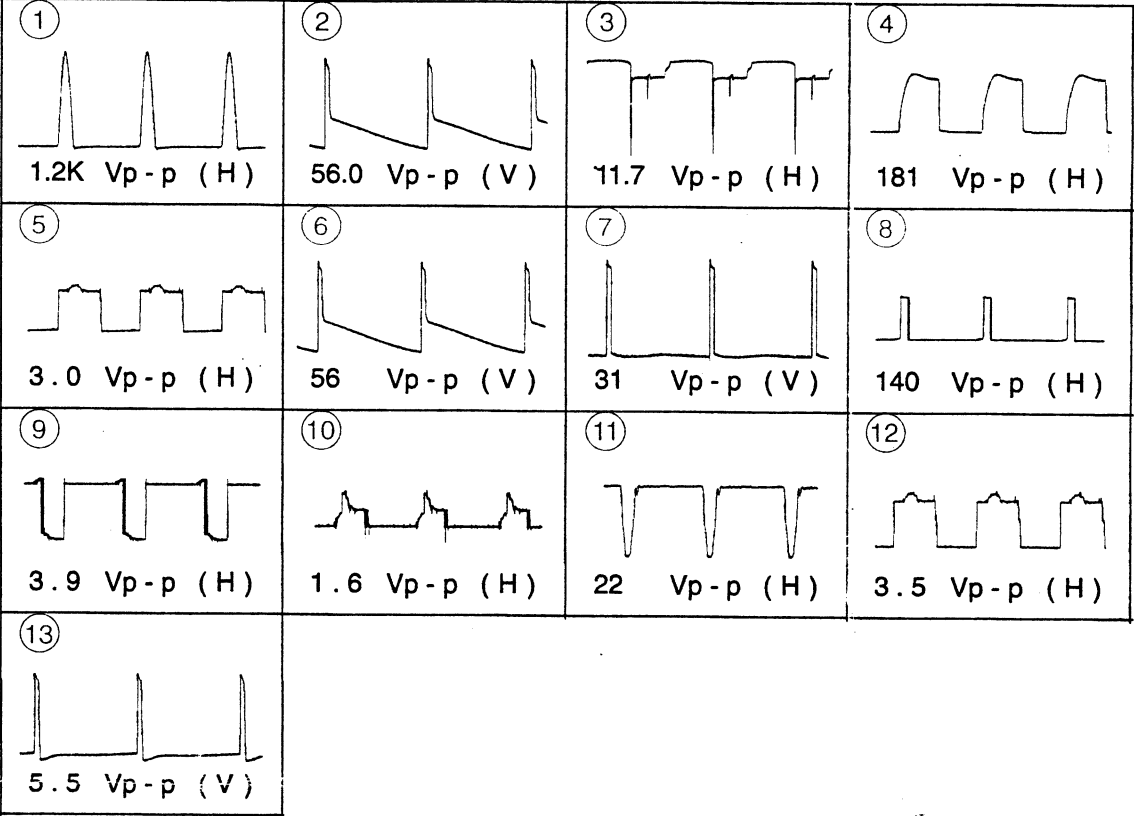
IC		D600	A - 4
IC500	G - 10	D601	C - 3
IC600	C - 5	D603	D - 4
IC601	D - 4	D604	D - 4
IC602	F - 7	D605	C - 3
IC603	H - 2	D606	C - 4
IC604	F - 4	D607	C - 4
IC605	F - 3	D608	F - 6
IC606	E - 2	D609	F - 6
IC800	F - 8	D610	F - 3
IC1200	G - 7	D611	F - 3
IC1201	F - 1	D612	F - 4
TRANSISTOR		D613	F - 5
Q501	H - 11	D614	F - 4
Q502	H - 11	D615	H - 4
Q503	I - 11	D616	G - 3
Q601	C - 4	D617	F - 5
Q602	G - 4	D618	F - 7
Q603	H - 3	D619	D - 2
Q604	G - 3	D620	E - 3
Q605	G - 5	D622	E - 3
Q606	H - 4	D625	G - 5
Q607	E - 4	D626	G - 3
Q800	E - 9	D800	G - 9
Q801	F - 9	D801	G - 9
Q802	A - 8	D802	F - 9
Q803	F - 7	D803	F - 9
Q805	F - 7	D807	E - 9
Q1200	H - 7	D808	E - 11
DIODE		D809	A - 11
D500	G - 9	D810	A - 10
D502	G - 9	D812	B - 7
D503	F - 10	D815	E - 11
D504	I - 10	D817	H - 8
D505	I - 10	D902	I - 2
D506	I - 10	D903	H - 1
D507	G - 9	D904	H - 1
		D905	H - 2
		D906	I - 1



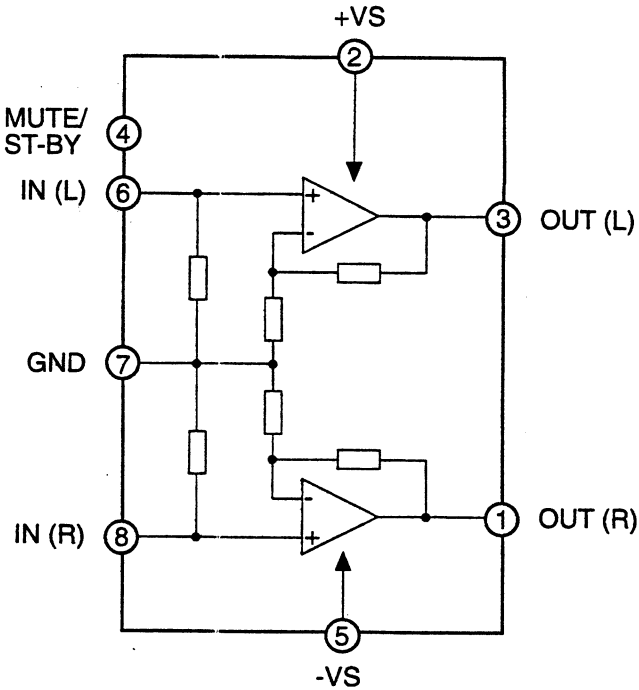




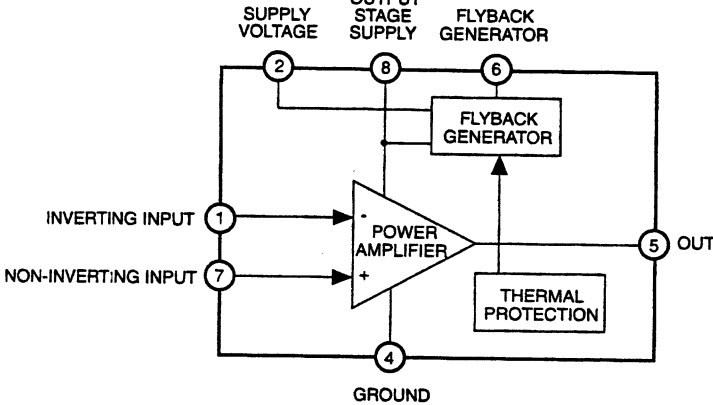
WAVEFORMS D BOARD



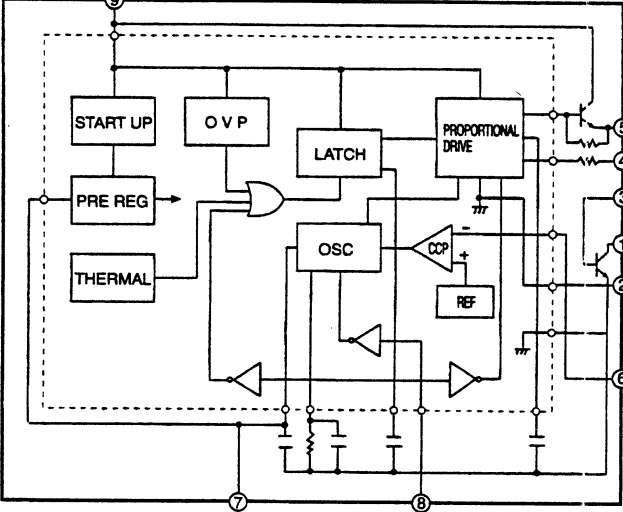
D BOARD IC1200 TDA7264

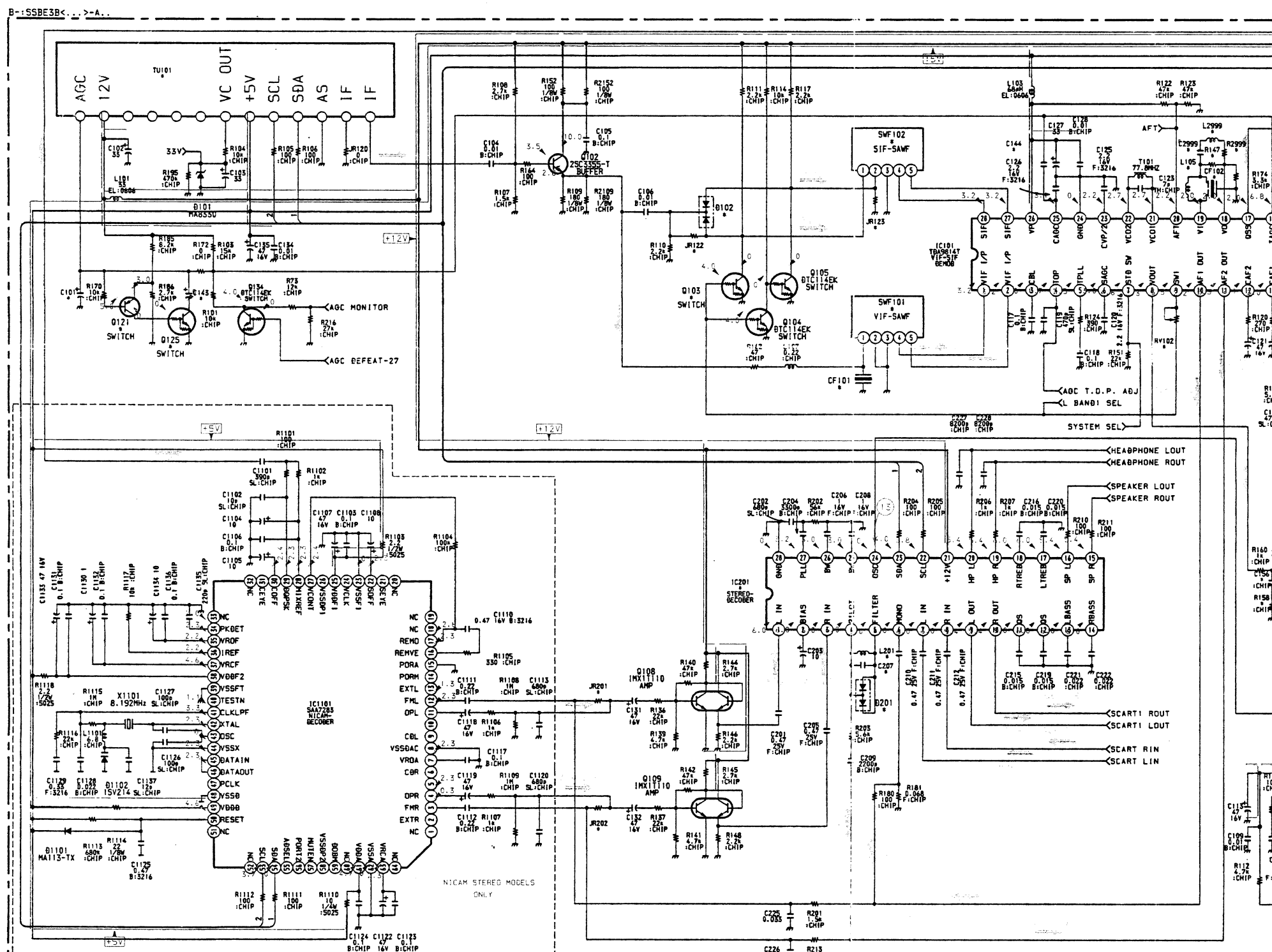


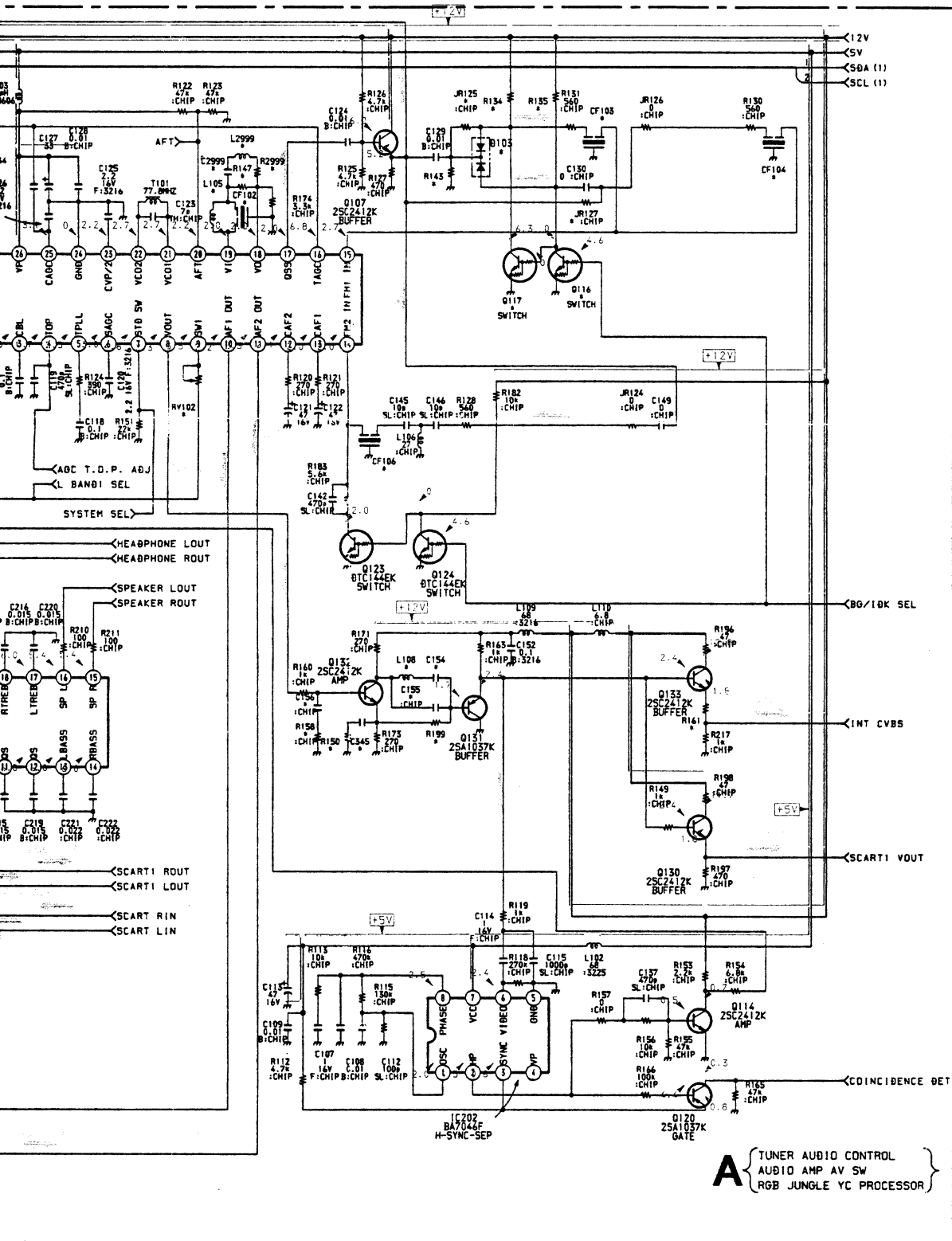
D BOARD IC500 STV9379



D BOARD IC600 STR-S6708



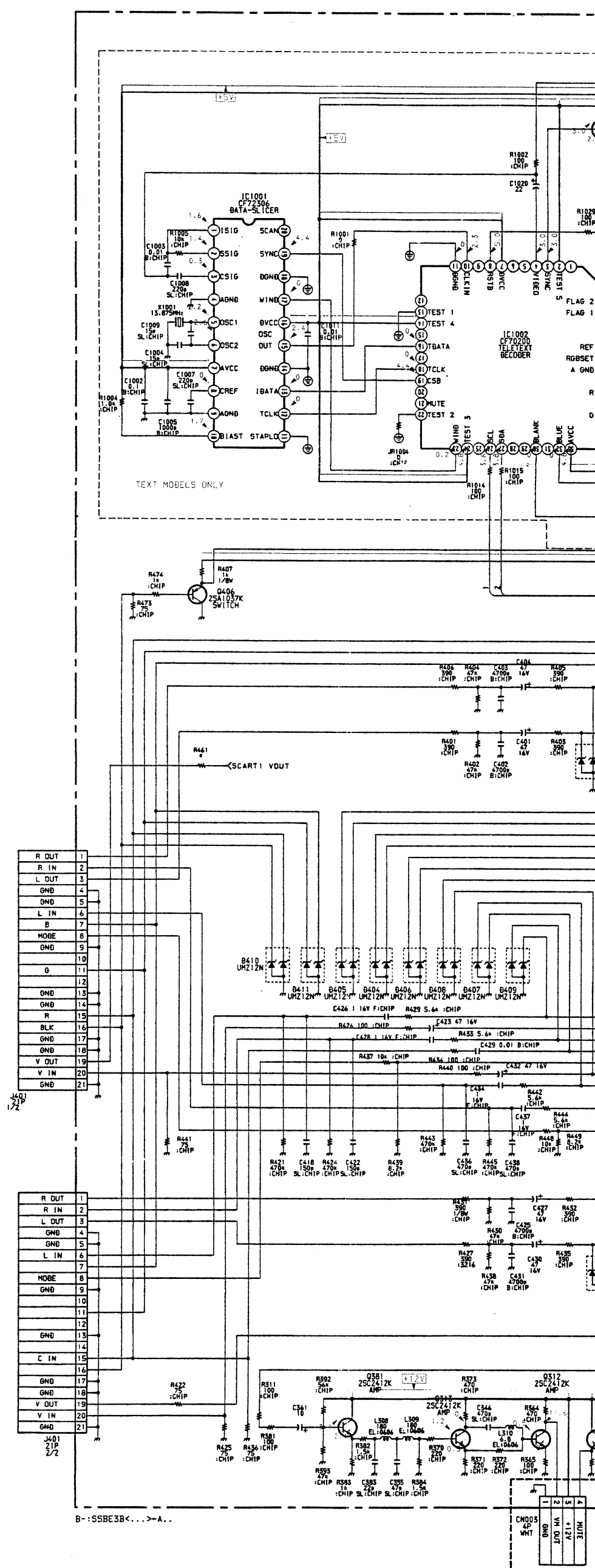


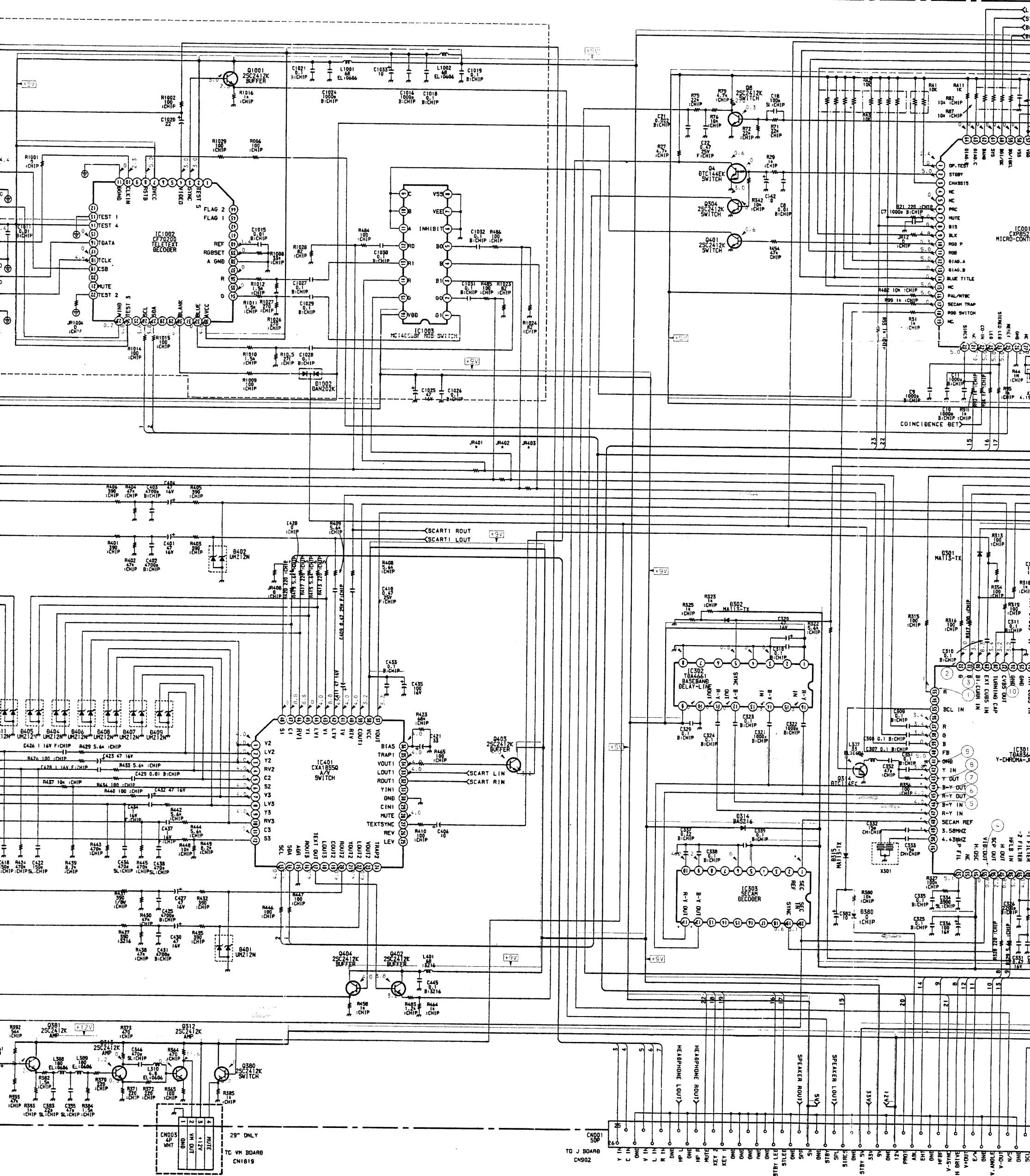


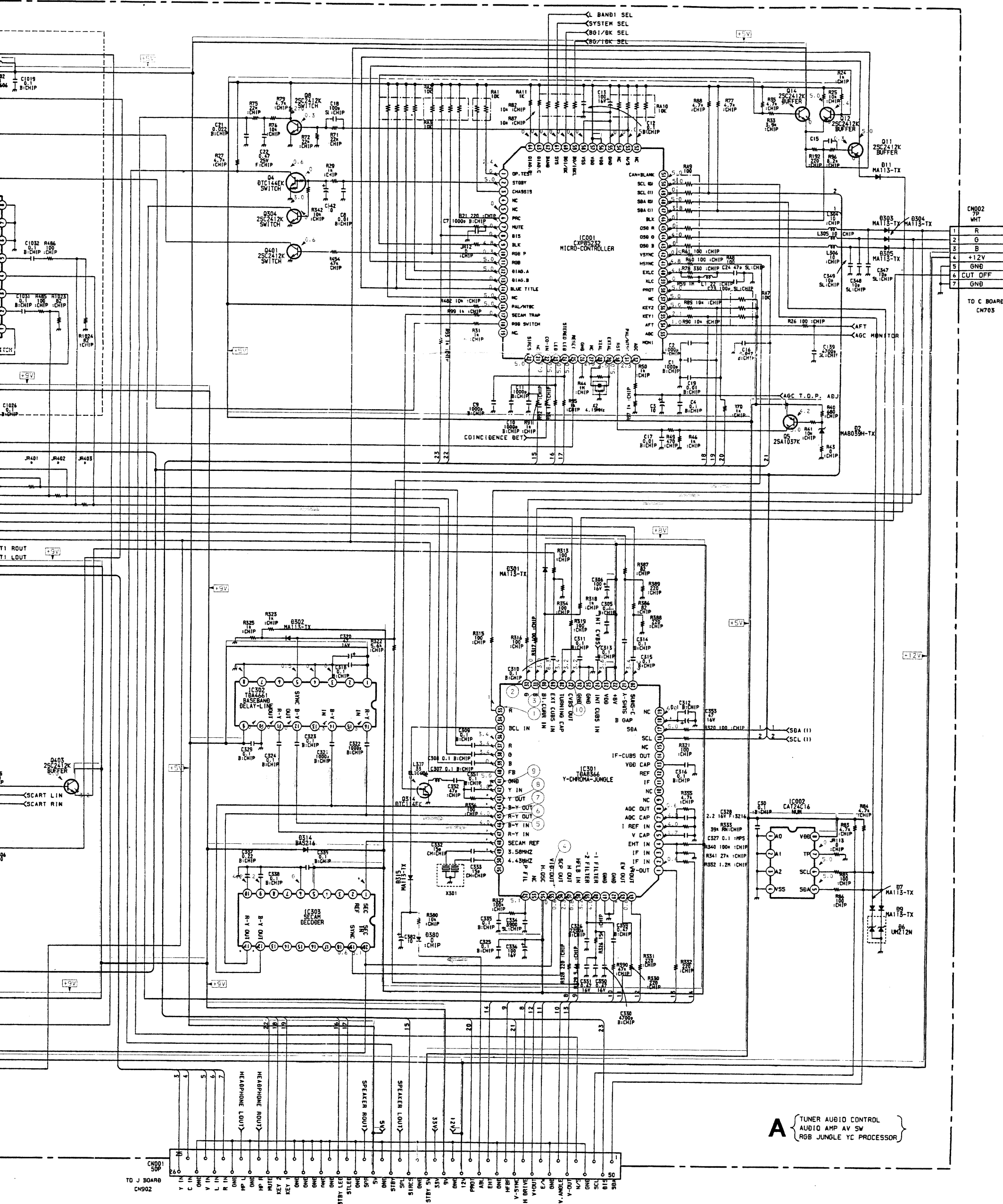
Voltages indicated with the mark ※ on the schematic diagram are shown in the table below.

A BOARD

IC	Pin	PAL	SECAM	NTSC 3.58	NTSC 4.43
IC301	17	4.0	4.0	4.0	0
	35	3.6	2.5	3.5	3.5
	44	1.5	3.1	1.5	1.5
	45	1.5	3.0	1.5	1.5
	48	1.7	4.4	1.6	1.7
IC303	49	1.4	1.4	2.0	1.4
	50	2.0	2.0	1.4	2.0
	63	3.4	2.5	2.2	2.5
	1	1.7	4.4	1.6	1.7
	11	1.5	3.0	1.5	1.5
IC303	12	1.5	3.1	1.5	1.5



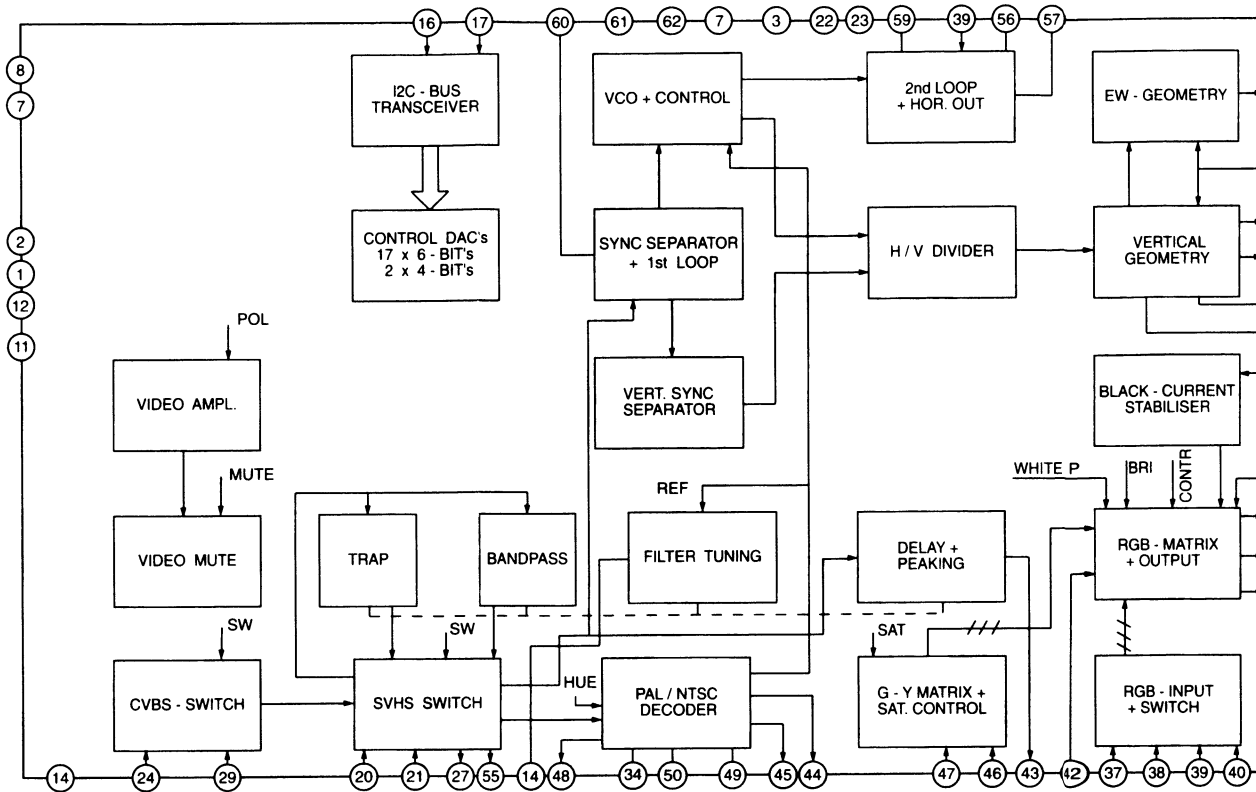




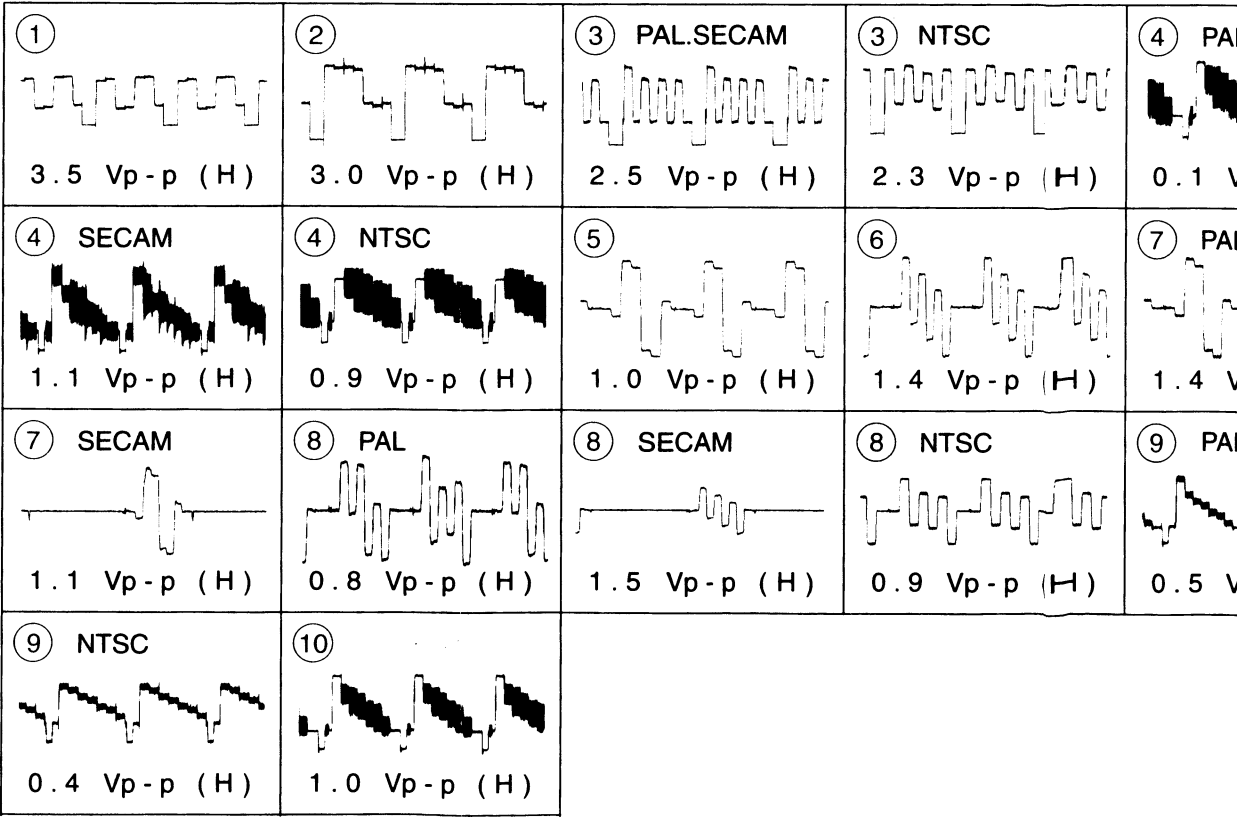
A BOARD * MARK

Ref	X2901D	X2901A	X2900B	X2901B	X2903E	X2902L	X2902U	X2901K
C101	22mF	22mF	4.7mF	4.7mF	22mF	22mF	22mF	22mF
C143	-	-	100mF 16V	100mF 16V	-	-	-	-
C144	-	-	1mF	1mF	-	-	-	-
C154	180pF	180pF	150pF	150pF	180pF	-	-	180pF
C155	47pF	47pF	33pF	33pF	47pF	-	-	47pF
C156	18pF	18pF	-	-	18pF	-	-	18pF
C207	0.0018mF 100V	0.0018mF 100V	0.0018mF 100V	0.0018mF 100V	0.0018mF 100V	-	-	0.0018mF 100V
CF101	EFCV4045A4	EFCV4045A4	EFCV4045A4	EFCV4045A4	EFCV4045A4	-	-	EFCV4045A4
CF102	5.5mHz	5.5mHz	5.5mHz/6.6mHz	5.5mHz/6.6mHz	5.5mHz	6.0mHz	6.0mHz	5.5mHz
CF103	5.5mHz	5.5mHz	5.5mHz	5.5mHz	5.5mHz	-	-	5.5mHz
CF104	6.5mHz	-	6.0mHz	6.0mHz	-	SFE6.0MB	SFE6.0MB	6.5mHz
CF106	5.75mHz	5.75mHz	5.75mHz	5.75mHz	5.75mHz	-	-	5.75mHz
D102	-	-	DAN202K	DAN202K	-	-	-	-
D103	DAN202K	-	DAN202K	DAN202K	-	-	-	DAN202K
D201	DA204K	DA204K	DA204K	DA204K	DA204K	-	-	DA204K
IC201	TDA6612	TDA6612	TDA6612	TDA6612	TDA6612	TDA6622	TDA6622	TDA6612
IC303	TDA8395T	-	TDA8395T	TDA8395T	-	-	-	TDA8395T
JR122	0 :CHIP	0 :CHIP	-	-	0 :CHIP	0 :CHIP	0 :CHIP	0 :CHIP
JR123	0 :CHIP	0 :CHIP	-	-	0 :CHIP	0 :CHIP	0 :CHIP	0 :CHIP
JR125	-	0 :CHIP	-	-	0 :CHIP	-	-	-
JR127	-	-	-	-	-	0 :CHIP	-	-
JR201	0 :CHIP	0 :CHIP	0 :CHIP	0 :CHIP	-	-	-	0 :CHIP
JR202	0 :CHIP	0 :CHIP	0 :CHIP	0 :CHIP	-	-	-	0 :CHIP
JR401	-	-	0 :CHIP	-	-	-	-	-
JR402	-	-	0 :CHIP	-	-	-	-	-
JR403	-	-	0 :CHIP	-	-	-	-	-
L105	15µH	15µH	8.2µH	8.2µH	15µH	15µH	15µH	15µH
L108	15µH	15µH	27µH	27µH	15µH	-	-	15µH
L201	4.7mmH	4.7mmH	4.7mmH	4.7mmH	4.7mmH	-	-	4.7mmH
Q103	-	-	DTC114EK	DTC114EK	-	-	-	-
Q116	DTC144EK	-	DTC144EK	DTC144EK	-	-	-	DTC144EK
Q117	DTC144EK	-	DTC144EK	DTC144EK	-	-	-	DTC144EK
Q121	-	-	2SA1037K	2SA1037K	-	-	-	-
Q125	-	-	DTC114EK	DTC114EK	-	-	-	-
R134	2.2K	-	2.2K	2.2K	-	-	-	2.2K
R135	2.2K	-	2.2K	2.2K	-	-	-	2.2K
R143	2.2K	-	2.2K	2.2K	-	-	-	2.2K
R147	270	270	150	150	270	270	270	270
R158	12K	12K	-	-	12K	-	-	12K
R199	330	330	470	470	330	-	-	330
RV102	-	-	22K	22K	-	-	-	-
SWF101	K3953M	K3953M	K3953M	K3953M	K3953M	J3950M	J3950M	K3953M
SWF102	K9350M	K9350M	K9453M	K9453M	K9350M	K9350M	K9350M	K9350M
TU101	UV-916H	UV-916H	UV-916H	UV-916H	UV-916H	U-944C	U-944C	UV-916H

A BOARD IC301 TDA8366T



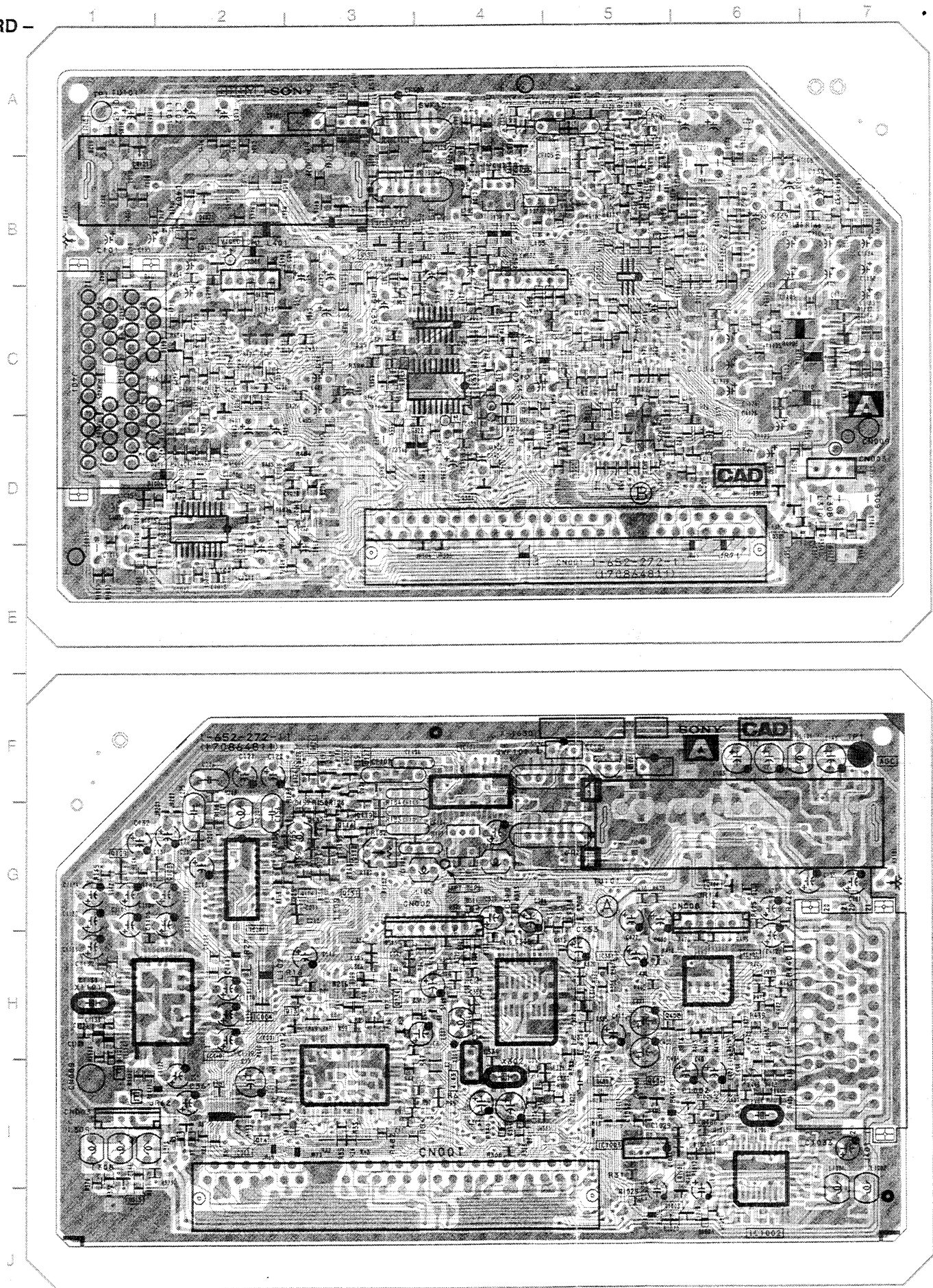
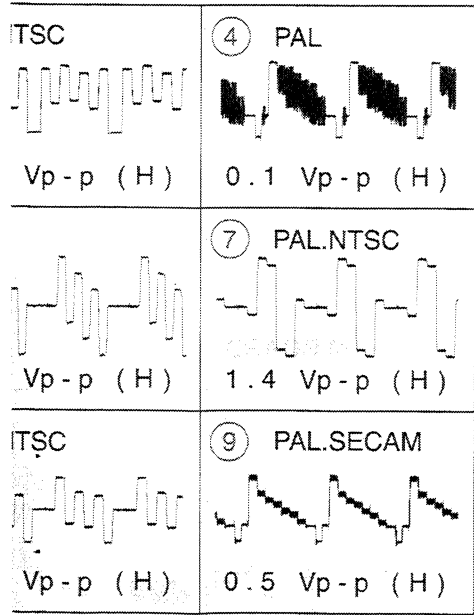
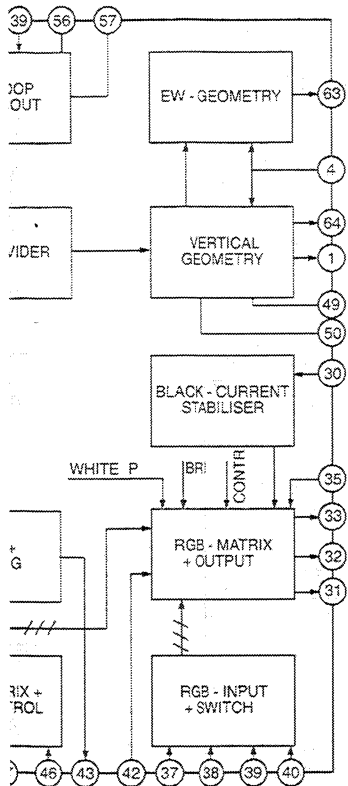
WAVEFORMS A BOARD



A

TUNER AUDIO CONTROL
AUDIO AMP AV SW
RGB JUNGLE YC PROCESSOR

- A BOARD -



IC		Q313	J-1
IC001	H-2	Q314	C-4
IC002	I-2	Q380	D-6
IC101	F-4	Q381	D-6
IC201	G-2	Q401	I-5
IC202	B-5	Q402	B-2
IC301	H-5	Q403	B-3
IC302	C-4	Q404	G-6
IC303	C-4	Q1001	I-6
IC401	H-6	Q1003	J-5
IC1001	D-2	DIODE	
IC1002	J-6	D6	I-2
IC1003	I-5	D7	I-2
IC1101	H-2	D9	I-2
TRANSISTOR		D11	D-5
Q4	D-6	D101	B-2
Q8	C-5	D102	B-4
Q11	D-5	D103	A-5
Q12	C-5	D201	B-6
Q14	I-2	D301	G-4
Q102	F-5, A-3	D302	C-4
Q103	B-3	D303	H-3
Q104	B-3	D304	B-5
Q105	B-3	D305	C-4
Q107	B-5	D314	B-3
Q108	G-2	D380	I-4
Q109	G-1	D401	C-2
Q114	G-3	D402	C-2
Q116	G-3	D404	C-2
Q117	F-3	D405	C-2
Q120	C-5	D406	C-2
Q121	A-1	D407	C-2
Q123	B-4	D408	C-2
Q124	F-3	D409	C-2
Q125	B-1	D410	C-2
Q130	B-3	D411	D-2
Q131	G-3	D1002	I-6
Q132	G-3	D1003	J-6
Q133	B-4	D1101	H-1
Q304	D-4	D1102	C-7
Q312	E-7		

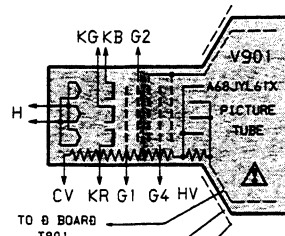
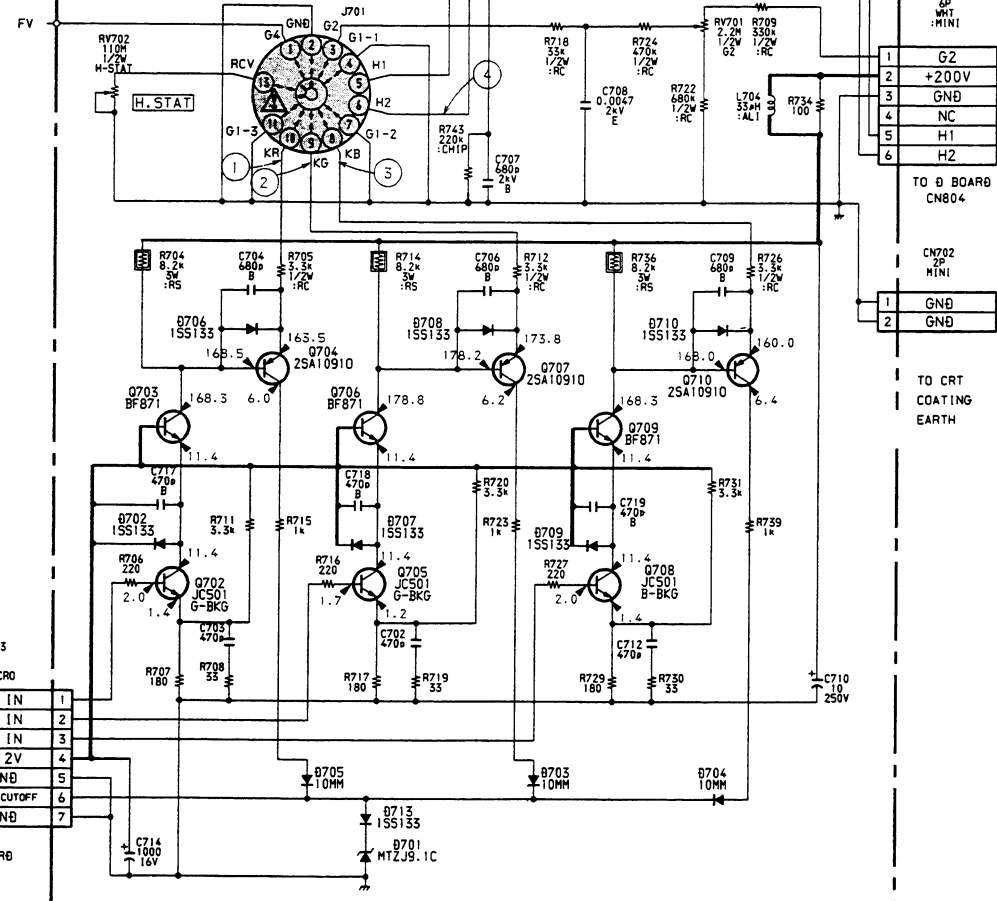
Note :

- : Pattern from the side which enables seeing.
- : Pattern of the rear side.

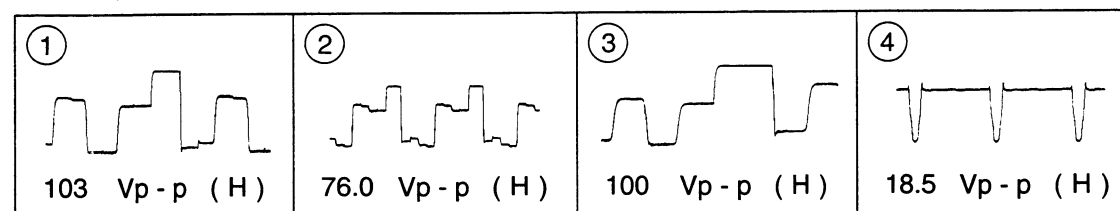
A
B
C
D
E
F
G
H
I
J

B-:SSBE3B<29>-C...

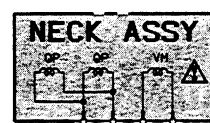
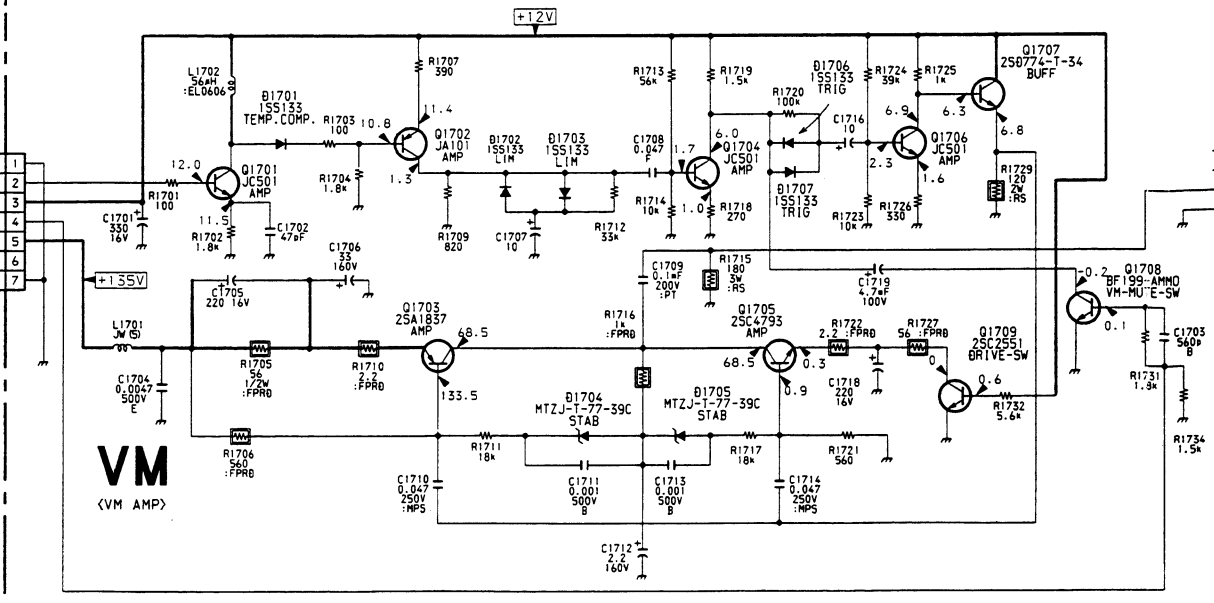
C (RGB OUT)



WAVEFORMS C BOARD

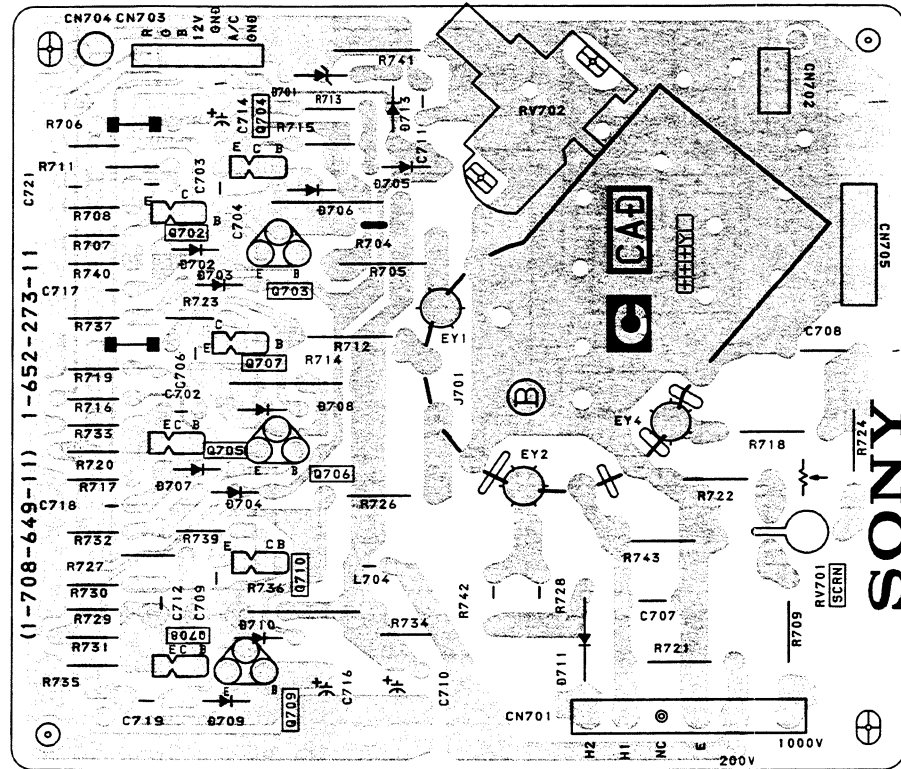


B-:SSBE3B<X29>-VM.

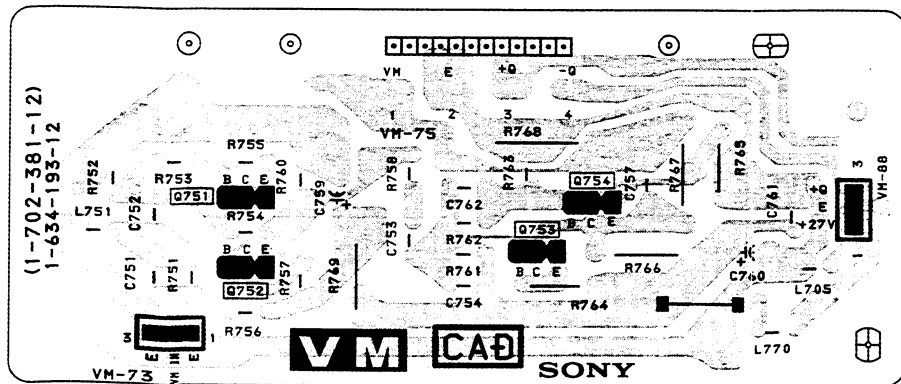


C [RGB OUT] **VM** [VM AMP]

- C BOARD -

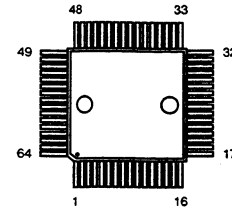


- VM BOARD -

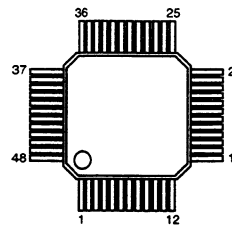


5.4 SEMICONDUCTORS

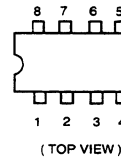
TDA8366
CF70200FN



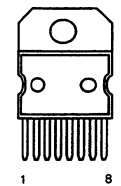
CXA1855Q
SAA7283
CXP85232



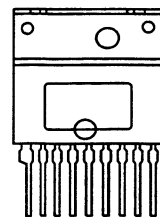
LM393
TDA7264



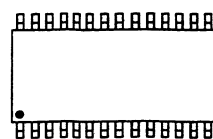
TDA7264



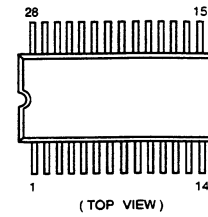
STRS6708



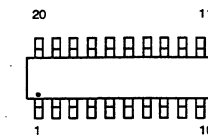
TDA6622



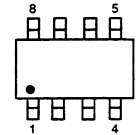
TDA9814



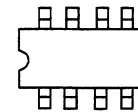
CF72306DW



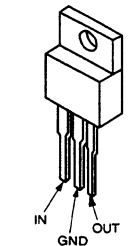
CAT24C16J



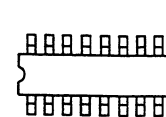
BA7046
TDA2822



MC7812
MC7805CT
LM2940T
SE135N



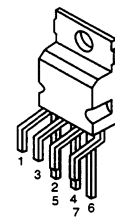
MC14053BF



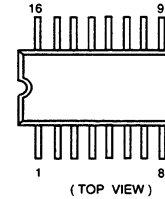
2SA10910
2SC2551-0
JA101
JC501TP



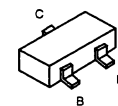
STV9379



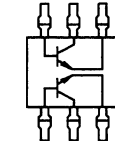
TDA4661/V2



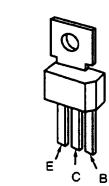
DTC144EK
DTA144EK
2SC2412K
2SA1037-G



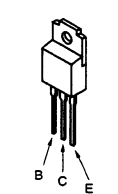
1MX1T110



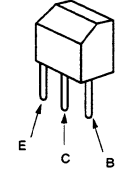
BF871



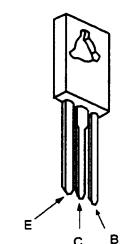
2SA1837
2SC4793



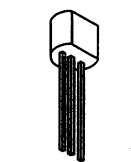
2SD774-34



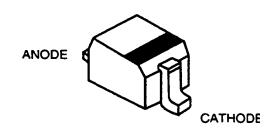
2SC2688-LK



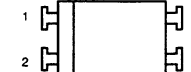
TL750L05CLP



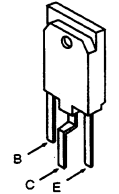
DTZ3.6A



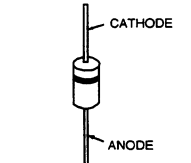
TLP621GR



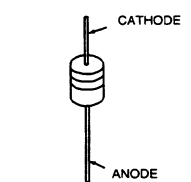
2SC4927-01



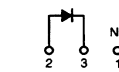
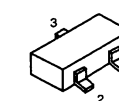
RGP10GPKG23
RGP15GPKG23
GP08DPKG23
RU-4AM
EL1Z
EU-1-V1
EU-1ZV1



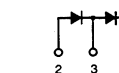
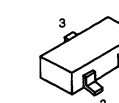
MTZJ-9.1C
MTZJ-5.1B
MTZJ-9.1
MTZJ-3.6A
MTZJ-6.8C
MTZJ-39C
1SS133



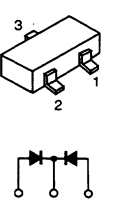
MA704WK



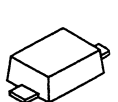
DA204K



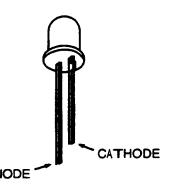
UMZ12N



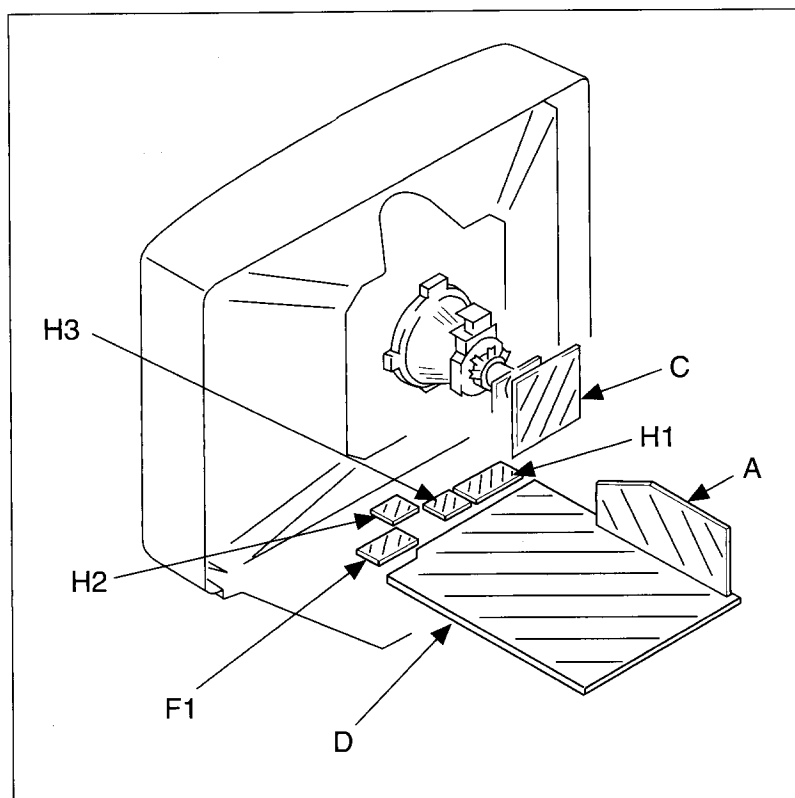
MA8039
MA113



SLR-54VR3





5-2. CIRCUIT BOARDS LOCATION



Reference information

RESISTOR	RN	: METAL FILM
	RC	: SOLID
	FPRD	: NONFLAMMABLE CARBON
	FUSE	: NONFLAMMABLE FUSIBLE
	RS	: NONFLAMMABLE METAL OX
	RB	: NONFLAMMABLE CEMENT
	RW	: NONFLAMMABLE WIREWOUND
COIL	*	: ADJUSTMENT RESISTOR
	LF-8L	: MICRO INDUCTOR
CAPACITOR	TA	: TANTALUM
	PS	: STYROL
	PP	: POLYPROPYLENE
	PT	: MYLAR
	MPS	: METALIZED POLYESTER
	MPP	: METALIZED POLYPROPYLENE
	ALB	: BIPOLAR
	ALT	: HIGH TEMPERATURE
	ALR	: HIGH RIPPLE

Note: The components identified by shading  are critical for safety. Replace with the part number specified.









Note: Les composants identifiés par une  sont d'une importance critique pour la sécurité. Ne les remplacer que par des pièces de numéro :

5-3. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note :

- All capacitors are in μF unless otherwise noted.
pF: $\mu \mu F$ 50WV or less are not indicated except for electrolytic.
- Indication of resistance, which does not have one for rating electrical power, is as follows.

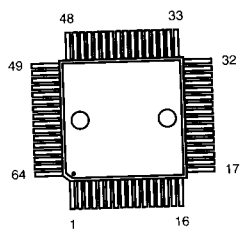
Pitch: 5mm
Rating electrical power: 1/4W

- Chip resistor is in 1/10W.
- All resistors are in ohms.
 $k \Omega = 1000 \Omega$, $M \Omega = 1000K \Omega$
-  : nonflammable resistor.
-  : fusible resistor.
- Δ : internal component.
-  : panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All voltages are in V.
- Readings are taken with a 10M Ω digital multimeter.
- Readings are taken with a color-bar signal input.
- Voltage variations may be noted due to normal production tolerances.
-  : B+ bus.
-  : B- bus.
-  : signal path.(RF)
-  : earth - ground
-  : earth - chassis

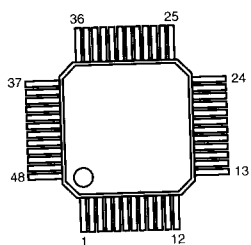
KV-C258

5.4 SEMICONDUCTORS

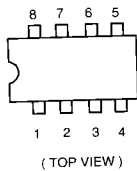
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CF70200FN



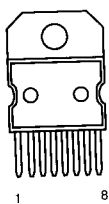
CXA1855Q
SAA7283
CXP85232



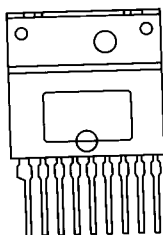
LM393
TDA7264



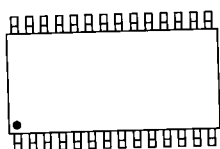
TDA7264



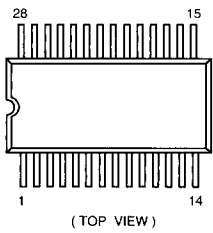
STRS6708



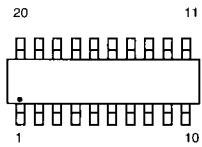
TDA6622



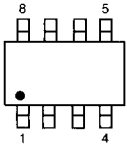
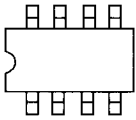
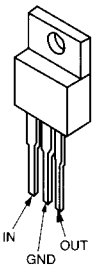
TDA9814



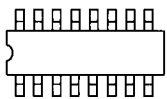
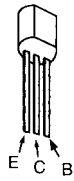
CF72306DW



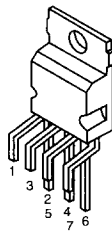
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BA7046
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MC7805CT
LM2940T
SE135N

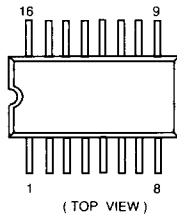
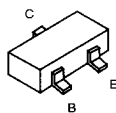
MC14053BF

2SA10910
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JA101
JC501TP

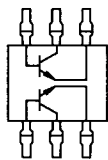
STV9379



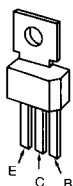
TDA4661/V2

DTC144EK
DTA144EK
2SC2412K
2SA1037-G

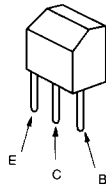
1MX1T110



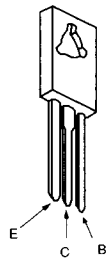
BF871

2SA1837
2SC4793

2SD774-34



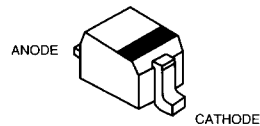
2SC2688-LK



TL750L05CLP



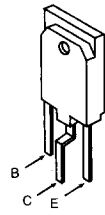
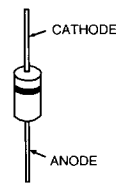
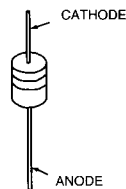
DTZ3.6A



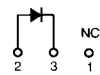
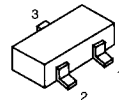
TLP621GR



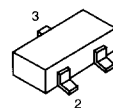
2SC4927-01

RGP10GPKG23
RGP15GPKG23
GP08DPKG23
RU-4AM
EL1Z
EU-1-V1
EU-1ZV1MTZJ-9.1C
MTZJ-5.1B
MTZJ-9.1
MTZJ-3.6A
MTZJ-6.8C
MTZJ-39C
1SS133

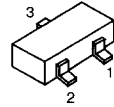
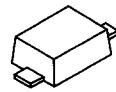
MA704WK



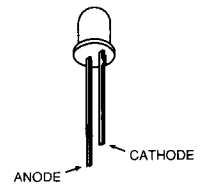
DA204K



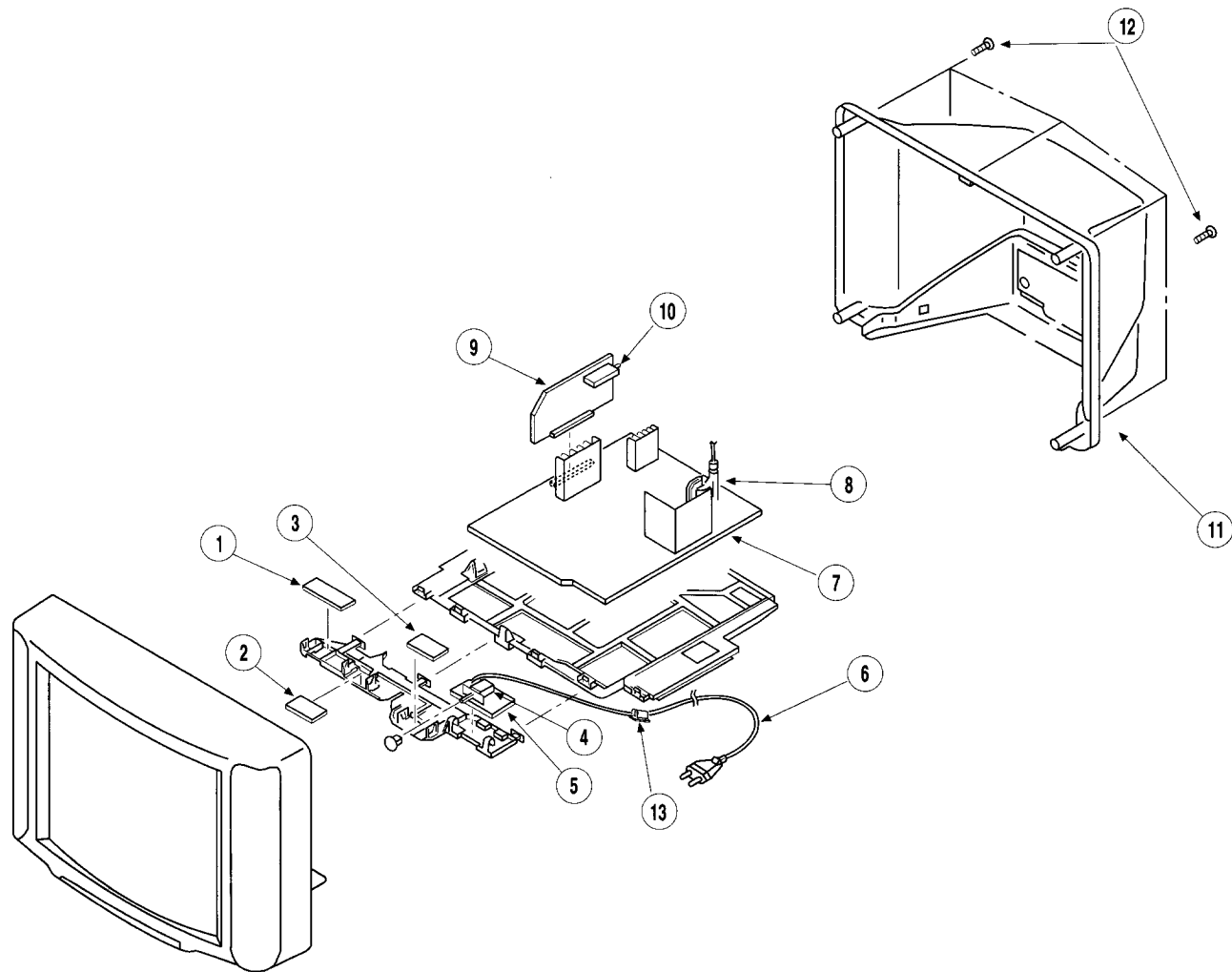
UMZ12N

MA8039
MA113

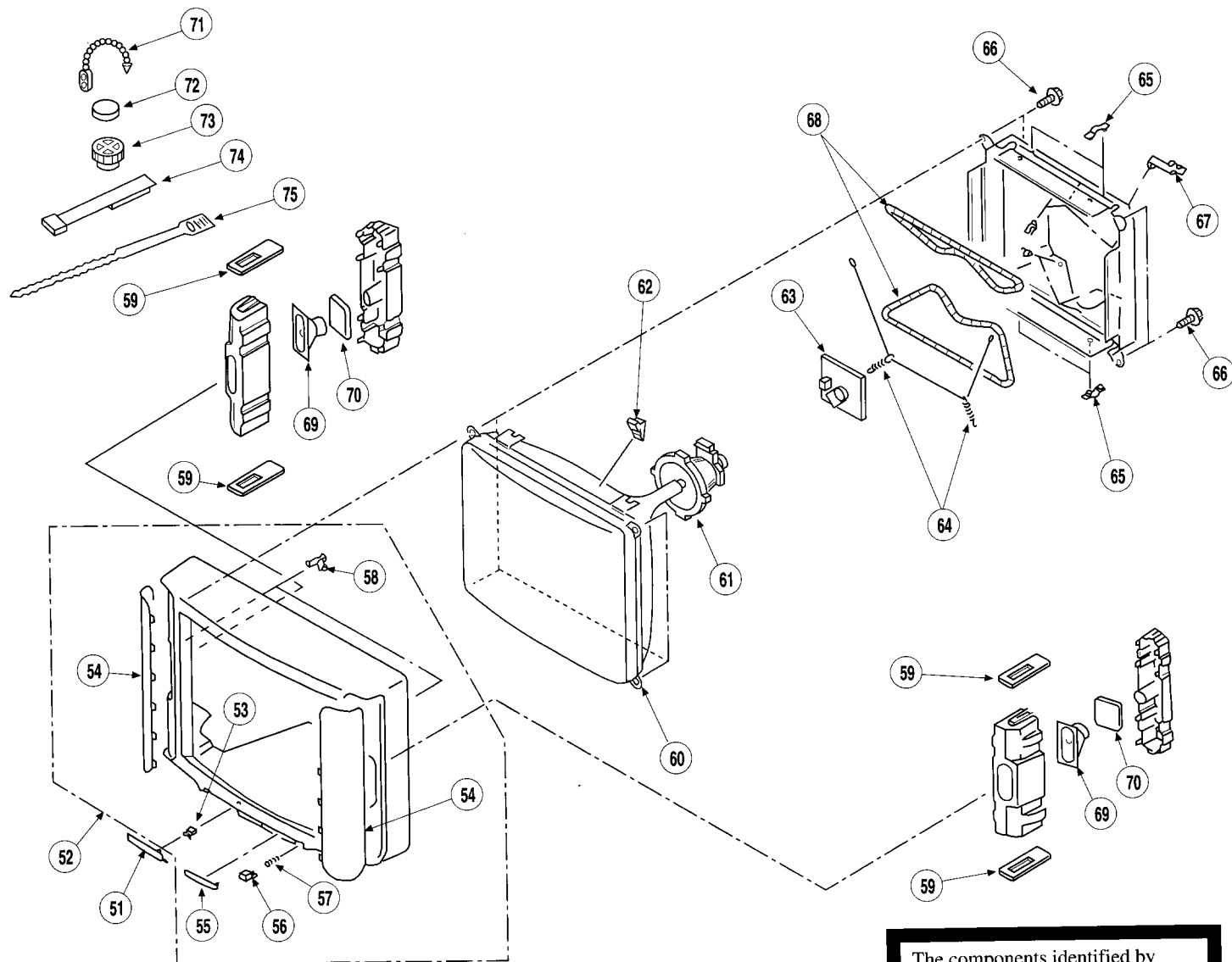
SLR-54VR3




6-1. CHASSIS



6-2. PICTURE TUBE



The components identified by shading and marked  are critical for safety. Replace only with the part number specified.